Sht 4. (2)

DEC 17 1997

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 623658

2. To: (Receiving Organization)	3. From: (Originating Organization)	4. Related EDT No.:
Distribution	Replacement Cross-Site Transfer System	N/A
5. Proj./Prog./Dept./Div.:	6. Design Authority/ Design Agent/Cog. Engr.:	7. Purchase Order No.:
W-058/Startup	GL Parsons	N/A
8. Originator Remarks: (For Release) This test report contains these two release documents as attachments: HNF-SD-W058-POTP-006		9. Equip./Component No.: N/A
		10. System/Bldg./Facility: Diversion Box 6241-A Vent Station 6241-V
11. Receiver Remarks: 11A. Design Baseline Document? [] Yes [X] No		12. Major Assm. Dwg. No.:
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: N/A

15. DATA TRANSMITTED

(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Approval Designator	(G) Reason for Transmittal	(H) Originator Disposition	(I) Receiver Disposition
1	HNF-1922		0	Pre-Operational Test Report, Vent Station and Diversion Box Ventilation System (POTR-006)	SQ	1	1	

16. KEY

Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval 4. Review 2. Release 5. Post-Review 3. Information 6. Dist. (Receipt Acknow. Required)	1. Approved 4. Reviewed no/comment 2. Approved w/comment 5. Reviewed w/comment 3. Disapproved w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION
(See Approval Designator for required signatures)

(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
1/2	1	Design Authority WG Brown	WG Brown	12/11/97	T4-07						
N/A		Design Agent									
1/2	1	Cog.Eng. EA Pacquet		12/15/97	R3-47						
1/2	1	Cog. Mgr. GL Parsons	GL Parsons	12/15/97	R3-47						
1/2	1	QA LR Hall	Larry R Hall	12/16/97	R3-47						
1/2	1	Safety OM Jaka	M. O. Jaka	12/12/97	S5-12						
		Env.									

18.	19.	20.	21. DOE APPROVAL (if required) Ctrl. No.
JE Dunka Signature of EDT Originator — Date 12/11/97	EA Pacquet Authorized Representative for Receiving Organization — Date 12/16/97	GL Parsons Design Authority/ Cognizant Manager — Date 12/15/97	[] Approved [] Approved w/comments [] Disapproved w/comments

BD-7400-172-2 (05/96) GEF097

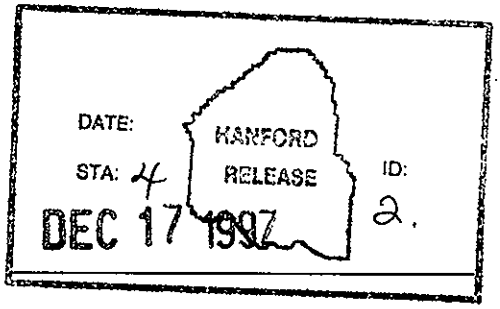
PRE-OPERATIONAL TEST REPORT, VENT STATION AND DIVERSION BOX VENTILATION SYSTEM (POTP-006)

GL Parsons
Numatec Hanford Corporation, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 623658 UC: 2030
Org Code: 8C610 Charge Code: N58U7
B&R Code: 39EW31301 Total Pages: 26

Key Words: Air tightness, HEPA filter, HNF-SD-W058-POTP-006, 6241-B, 6241-A, W-058

Abstract: This report documents the results of the testing done per POTP-006, Vent Station and Diversion Box Ventilation System, (HNF-SD-W058-POTP, Rev. 0). All of the testing acceptance criteria were met without exception.



L. Tat 12-17-97
Release Approval Date
Release Stamp

Approved for Public Release

HNF-1922 Pg 1

APPROVAL DESIGNATOR SQ

TEST REPORT APPROVAL BY TEST REVIEW BOARD (TRB)

TRB Chair	12-15-97 Date	TWRS Operations	12-11-97 Date
TWRS Engineering W O Brown 12/11/97	12-11-97 Date	TWRS Safety	12-12-97 Date
Startup Engineer	12-12-97 Date	Quality Assurance	12/16/97 Date
Project Management	12-15-97 Date	J.L. HENDERSON BY PED TELCON	12/16/97 Date
		FDNW Construction	

HNF-1922 Pg2 - rwo

ATTACHMENTS

Attachment - 1 Copy of original test procedure, HNF-1557 Rev 0, with recorded data.

REFERENCES

1. HNF-1557, Rev 0, *Vent Station and Diversion Box Ventilation System.*
2. HNF-SD-W058-SUP-002, Rev 1, *Project W-058 Startup Test Plan*

INTRODUCTION

Preoperational test HNF-1557, Rev 0 was performed in October and November of 1997 with no exceptions. The technical requirements for the hardware performance were satisfied.

SUMMARY OF TEST RESULTS

ACCEPTANCE CRITERIA

a. The air flow measured at the Diversion Box , Building 6241-A, HEPA filter outlet is equivalent to 90% (minimum) of the flow supplied by the temporary blower. *(Criteria met)*

b. The air flow measured at the Vent Station , Building 6241-V, HEPA filter outlet is equivalant to 90% (minimum) of the flow supplied by the temporary blower. *(Criteria met)*

DISCUSSION

The first measurement cycle at the vent station produced acceptable results. The initial testing at the Diversion Box produced leakage in excess of 20%. The conduits entering the vault area were resealed with an expanding foam product and the observed leakage rate was reduced to approximate 6%.

Stat

OCT 16 1997

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 622916

2. To: (Receiving Organization)	3. From: (Originating Organization)	4. Related EDT No.:
Distribution	Replacement Cross-Site Transfer System	N/A
5. Proj./Prog./Dept./Div.:	6. Design Authority/ Design Agent/Cog. Engr.:	7. Purchase Order No.:
W-058/Startup	GL Parsons	N/A
8. Originator Remarks: For Release		9. Equip./Component No.: N/A
		10. System/Bldg./Facility: 6241-V
11. Receiver Remarks:	11A. Design Baseline Document? [ ] Yes [X] No	12. Major Assm. Dwg. No.: H-2-822269
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: N/A

15. DATA TRANSMITTED

(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Approval Designator	(G) Reason for Transmittal	(H) Originator Disposition	(I) Receiver Disposition
1	HNF-1557		0	Preoperational Testing, Vent Station and Diversion Box	~~N/A~~ SQ Clm for GAL per telecon 10/16/97	1	1	

16. KEY

Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval 4. Review 2. Release 5. Post-Review 3. Information 6. Dist. (Receipt Acknow. Required)	1. Approved 4. Reviewed no/comment 2. Approved w/comment 5. Reviewed w/comment 3. Disapproved w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION
(See Approval Designator for required signatures)

(G) Reason	(H) Disp.	(J) Name (K) Signature (L) Date (M) MSIN	(G) Reason	(H) Disp.	(J) Name (K) Signature (L) Date (M) MSIN
N/A	N/A	Design Authority N/A (For Approvals, see page 1 of Document)			
N/A	N/A	Design Agent N/A			
1/2	1	Cog.Mgr. GL Parsons [signature] 10/15/97 R3-47			
1/2	1	Cog. Proj. Startup EA Pacquet [signature] R3-47			
N/A	N/A	QA ~~N/A~~ SEE SIGNATURE ON PG 1 OF DOCUMENT			
N/A	N/A	Safety ~~N/A~~ SEE SIGNATURE ON PG. 1 OF DOCUMENT [signature] 10/16/97			
N/A	N/A	Env. N/A			For Approvals see page 1 of document

18.	19.	20.	21. DOE APPROVAL (if required) Ctrl. No.
GA Ishikar [signature] 10/15/97	EA Pacquet [signature] 10/15/97	GL Parsons [signature] 10/15/97	[ ] Approved [ ] Approved w/comments [ ] Disapproved w/comments
Signature of EDT Originator Date	Authorized Representative for Receiving Organization Date	Design Authority/ Cognizant Manager Date	

BD-7400-172-2 (05/96) GEF097

HNF-1997 Pg 4 rev 0

BD-7400-172-1

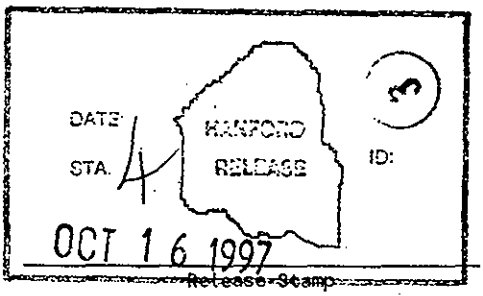
Pre-Operational Testing, Vent Station and Diversion Box Ventilation

G. L. Parsons
Numatec Hanford Corporation, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 622916 UC: 2030
Org Code: 8C610 Charge Code: N58U7
B&R Code: 39EW31301 Total Pages: 120
KMB 10/16/97

Key Words: Project W-058, Diversion Box, Vent Station, 6241

Abstract: This procedure documents the steps required to demonstrate the air tightness of Vent Station and Diversion Box structures by ensuring that 90% of air flow exists the structure via the air inlet HEPA when the structure is pressurized.



Release Approval 10/16/97 Date

Release Stamp

Approved for Public Release

HNF-1922 Pg 5 rev 0

Author
G.A. Leshikar / J.D. van Heel Print Name/Signature

APPROVAL DESIGNATOR SQ

PROCEDURE APPROVAL BY TEST REVIEW BOARD (TRB)

K. PACQUET TRB Chair	10/7/97 Date	TWRS Operations	10-7-97 Date
TWRS Engineering	10-7-97 Date	TWRS Safety	10/7/97 Date
SD VAN HEEL Startup Engineer	10/7/97 Date	Larry R. Hall Quality Assurance	10/7/97 Date
Project Management	10-7-97 Date	FDNW Construction	10/7/97 Date

TABLE OF CONTENTS PAGE

1.0 PURPOSE

1.1 This procedure verifies that the Vent Station 6241-V and Diversion Box 6241-A meet air tightness requirements.

2.0 INFORMATION

2.1 SCOPE

2.1.1 This procedure will demonstrate the air tightness of Vent Station and Diversion Box structures by ensuring that at least 90% of air flow exits the structure via the air inlet HEPA when the structure is pressurized.

2.1.2 This procedure is governed by HNF-CM-6.1, EP 4.2 which establishes the requirements for project, program, department, or division testing activities.

2.2 TERMS AND DEFINITIONS

2.2.1 HV - Hand Valve
2.2.2 PI - Pressure Indicator
2.2.3 HEPA - High Efficiency Particulate Air

2.3 RESPONSIBILITIES

2.3.1 The Construction Forces craft personnel are responsible for:

- Providing assistance during the test.

2.3.2 Test Director responsibilities:

- Provide the equipment found in Step 4.9 of this procedure.
- Safe and productive accomplishment of the tests necessary to achieve startup.
- Ensure safe working conditions and practices.
- Ensure compliance with test documents, Operational Safety Requirements/Documents (OSRs/OSDs) during testing.
- Communicate and coordinate the tests with the Tank Farm Shift Managers.
- Ensure appropriate review/approval of any modifications to test procedures are completed prior to returning to work
- Direct line of communication and centralized point of control.
- Conducts pre-job planning meeting as necessary.
- Scheduling/rescheduling of the test as required.
- Delegates any of the above responsibilities as needed to a deputy.

2.3.3 Test Engineer responsibilites:

- Conducting pre-job system walkdown.
- Recording equipment status and data per this procedure.
- Directing preoperational testing
- Providing technical support during testing.
- Providing programming support during testing.
- Forcing data in PLC program during testing.
- Recording data exceptions and other notes as required on the POTP Data Sheets.
- Review test documents to validate acceptance
- Prepare post testing documents

2.3.4 Operations Personnel responsibilities:

- Observing testing activities for training purposes.

2.3.5 Vent & Balance Personnel responsibilities:

- Collect data and determine air flows.
- Provide completed test data sheets to Test Engineer at conclusion of testing.

2.4 CHANGE CONTROL

2.4.1 Test procedure administrative or editorial changes required during testing may be accommodated either as exceptions or by the Test Engineer red-lining the controlled copy of the test procedure, if such changes will not affect operating facility safety, function, or performance and will not compromise or influence test data. Requirement changes, changes to acceptance criteria, or changes to Danger, Caution, Special Precautions, or other safety or environmental instructions in test procedures prepared as supporting documents must be made by engineering change notice.

2.5 EXCEPTIONS

2.5.1 Exceptions to results or to the test procedure will be given a sequential number and recorded on Attachment G, Test Exception Log sheet. A Test Exception Report, Attachment F, will be filled out to record and disposition each test exception.

2.6 REFERENCES

2.6.1 The following documents were used to write or are referenced in this procedure:

- Project W-058 Startup Test Plan, WHC-SD-W058-SUP-002
- H-2-822269, Structural/HVAC Concrete HVAC Duct Sections and Details.
- H-2-822238, Structural Diversion Box 6241-A Overall Plan
- H-6-13986, Structural Vent Station 6241-V Overall Plan

- FMSS Preventive Maintenance Procedure 7-GN-056, Airflow Capacity and Distribution Tests.
- WHC-SD-W058-PSAR-001

2.7 ENVIRONMENTAL

2.7.1 Spills of hazardous materials should be reported to Environmental Reports group at 373-4942.

2.8 SAFETY

Warning - Operators should be aware of the possibility of coming into contact with poisonous snakes and spiders.

2.8.1 The following administrative procedures control work performed in this procedure:

- Safety: HNF-PRO-074 thru -096 and HNF-PRO-100 thru -105
- Industrial Hygiene: HNF-PRO-110, -111, -115, -119 thru -121.
- Tank Farm Health and Safety Plan (HASP), WHC-SD-WM-HSP-002

2.9 RADIATION AND CONTAMINATION CONTROL

2.9.1 The work covered by this procedure is performed outside of the tank farm and does not require entry into a radiation/contamination control area.

2.10 QUALITY ASSURANCE

2.10.1 No Quality Assurance witness or hold points are required in this procedure. Quality Assurance shall review and approve the test procedure, the final test report and the disposition of all test exceptions.

2.11 GENERAL INFORMATION

2.11.1 All Measuring and Test Equipment (M&TE) used during performance of this procedure to collect qualitative data with the exception of timing devices shall meet the following requirements:

- Be within its current calibration cycle as evidenced by an affixed calibration label.
- Be capable of desired range.
- Have an accuracy (consistent with state-of-the-art limitations) equal to or greater than the accuracy specified in the procedure.

2.11.2 Timing measurements shall be made with commercially available time devices.

2.11.3 All readings are to be taken and recorded for each location where the capability exists (i.e. local instrument, PCU, MCS).

2.12 LIMITS AND PRECAUTIONS

2.12.1 If during performance of this procedure, any of the following conditions are found, **immediately** notify the Test Engineer:

- Any equipment malfunction which could prevent fulfillment of it's functional requirements.
- Personnel error or procedural inadequacy which could prevent fulfillment of procedural requirements.

The Test Engineer may choose to stop work and place equipment in a safe condition based on the significance of the malfunction, error or inadequacy.

2.12.2 The Test Engineer has overall control of the testing process and change authorization for this procedure. The Test Engineer is responsible for running the test, data collection, and ensuring compliance with all requirements in this procedure.

2.12.3 Contact Test Director for additional instructions if changing plant conditions affect work or delays in work extend past end of shift.

2.12.4 If any waste is generated during performance of this instruction consult Facility/Plant/Area Hazardous Waste Coordinator for specific instructions to ensure compliance with HNF and DOE environmental standards, as applicable, for disposal.

2.12.5 Comply with FDNW and plant/facility specific lock and tag or over-tagging requirements, as applicable.

3.0 RECORDS

3.1 This procedure as well as all completed attachments/appendices are kept as a permanent record.

4.0 PREREQUISITES

Note: Unless otherwise specified, prerequisite actions may be performed in any order.

4.1 Perform a walkdown of the system tested by this procedure.
Test Engineer: _____

4.2 Perform a pretest briefing for all personnel involved in the performance of this test.
Test Director: _____

4.3 All personnel who will be involved with this test have provided the required signature verification information in Attachment ~~A~~ D
Test Engineer: _____

4.4 The test engineer has verified, by review of the tag log and a walkdown of the systems being tested, that all components within and including the test boundary have been "blue" tagged.
Test Engineer: _____

4.5 The following equipment has been installed in accordance with vendor manuals:

4.5.1 Diversion Box 6241-A HEPA filter
4.5.2 Vent Station 6241-V HEPA filter

Test Engineer _____

4.6 Communications between personnel at the MCS in 242-S and in the field has been verified.

Test Director _____

4.7 The official copy of this POTP and all other copies that will be used during the test have been verified to be the latest revision.

Test Director _____

4.8 All open items have been evaluated and verified to not affect the performance of this POTP (Quality Assurance Nonconformance Reports, Construction Punch Lists, outstanding Engineering or Field Change Notices, Startup-originated Design Change Requests, Test Deficiency Reports, and Master System Punch List items).

Test Director _____

4.9 Vent & Balance Technician(s) are trained to the requirements of Facilities Maintenance Support Services procedure -GN-056.

Test Director _____

4.10 EQUIPMENT/INSTRUMENTS

4.10.1 **VERIFY** Test Equipment identified below is properly installed in accordance with the sketch in Attachment C.

Test Engineer: _____

4.10.2 Air Flow Measurement Equipment/Instruments.

4.10.2.1 Pitot tube.
4.10.2.2 Manometer, accuracy ± 3% of full scale.

VENT STA
Manufacturer: Neotronics Model No. MP20SR
Serial No. 799-28-09-009 Calibration Date 8/19/97
Calibration Due Date 8/19/98

DIV. BOX
mfg Neotronics model MP20SR
S/N 799-28-09-003 cal date: 3/19/97
cal due: 3/19/98

4.10.3 Fan/Blower, with integral motor, to provide 200 cfm to 400 cfm, 2" to 3" static pressure (in H_2O), 115V. (Grainger Stock No. 7C483, 1997 catalog - no. 338, page 3776; or equivalent)

4.10.3.1 Fan Base Skid (provides counterweight to keep fan from "walking" during operation), fabricate as required to match fan mounting bolt pattern.

4.10.3.2 Bolts/nuts/washers: as required to hold fan to base skid structure.

4.10.3.3 Transition piece #1: as required to connect fan outlet to 4" dia pipe.

4.10.4 Duct tape.

4.10.5 4" pipe, 60" long, one end to mate with Transition piece #1, other end as required to mate with Transition piece #2.

4.10.6 Transition piece #2, no leakage allowed at either end, one end to mate with 4" pipe, other end to mate with 6" Class 150 Slip-on Flange flat face, quantity (2).

4.10.7 4" pipe, 60" long, one end to mate with Transition piece #2.

5.0 PROCEDURE

5.1 Preoperational testing shall be performed using Attachments A and B of this procedure.

6.0 ACCEPTANCE CRITERIA

6.1 The air flow measured at the Diversion Box 6241-A HEPA filter outlet is equivalent to 90% of the flow supplied by the temporary blower.

Test Engineer _____

LMHC QC _____ 12.11.97

6.2 The air flow measured at the Vent Station 6241-V HEPA filter outlet is equivalent to 90% of the flow supplied by the temporary blower.

Test Engineer _____

LMHC QC _____ 12.11.97

1.0 Initial Conditions

1.1 VERIFY all Diversion Box penetrations are installed and sealed.
Test Engineer: GEE

1.2 VERIFY all Diversion Box doors are closed.
Test Engineer: GEE

1.3 OPEN the following valves:
Diversion Box Air Outlet Valve
Diversion Box Air Inlet Valve

2.0 Inlet/Outlet Flow Comparison Test

Test Description: A pitot tube will be used to traverse the supply duct and exhaust duct. At each location the flow stream will be traversed in two directions, 90 degrees to each other. The resulting differential pressure data will then be evaluated to obtain an average velocity, which can then be used to determine the airflow rate. The data will be recorded on the test data sheet given in Vent & Balance procedure 7-GN-056.

2.1 START the temporary blower.

2.2 ALLOW the temporary blower to operate for approximately 15 minutes to allow the ventilation flow to stabilize.

Note: The measured airflow must be at least 200 cfm to ensure maximum accuracy.

2.3 DETERMINE the airflow in the supply duct per the Airflow Capacity Test given in procedure 7-GN-056.

Supply Air Flow Rate 310 cfm ← retest: 12/3/97 GEE

Test Engineer: GEE

2.4 MULTIPLY the supply air flow rate value calculated in the previous step by .90.

90% of Supply Air Flow Rate 279 cfm ← retest: 12/3/97 GEE

Test Engineer: GEE

2.5 DETERMINE the airflow in the exhaust duct per the Airflow Capacity Test given in procedure 7-GN-056.

Exhaust Air Flow Rate 292 cfm ← retest 12/3/97 gee

Test Engineer: gee

2.6 VERIFY the Exhaust Air Flow Rate is equal to or greater than 90% of Supply Air Flow Rate.

Test Engineer: gee

2.6.1 IF the Exhaust Air Flow Rate is less than 90% of Supply Air Flow Rate, GO TO Section 3.0. N/A if not performed.

Test Engineer: gee

2.7 GO TO Section 4.0.

3.0 Diversion Box Leak Check

3.1 CHECK around Diversion Box door seals for signs of air leakage.

3.2 CHECK mechanical joints on Diversion Box penetrations for air leakage.

3.3 CHECK connections on air inlet/outlet piping for air leakage.

3.4 REPAIR all leaks found and REPEAT Section 2.0.

4.0 Secure From Test

4.1 STOP the temporary blower.

4.2 DISMANTLE the test set-up and REINSTALL the air inlet elbow and air outlet blind flange.

4.3 VERIFY air inlet and outlet match the pre-test configuration.

Test Engineer: gee

4.4 ATTACH completed test data sheets to this procedure.

Test Engineer: gee

1.0 Initial Conditions

1.1 VERIFY all Vent Station penetrations are installed and sealed.
Test Engineer: _____

1.2 VERIFY all Vent Station doors are closed.
Test Engineer: _____

1.3 OPEN the following valves:
Vent Station Air Outlet Valve
Vent Station Air Inlet Valve

2.0 Inlet/Outlet Flow Comparison Test

Test Description: A pitot tube will be used to traverse the supply duct and exhaust duct. At each location the flow stream will be traversed in two directions, 90 degrees to each other. The resulting differential pressure data will then be evaluated to obtain an average velocity, which can then be used to determine the airflow rate. The data will be recorded on the test data sheet given in Vent & Balance procedure 7-GN-056.

2.1 START the temporary blower.

2.2 ALLOW the temporary blower to operate for approximately 15 minutes to allow the ventilation flow to stabilize.

Note: The measured airflow must be at least 200 cfm to ensure maximum accuracy.

2.3 DETERMINE the airflow in the supply duct per the Airflow Capacity Test given in procedure 7-GN-056.

Supply Air Flow Rate 318 cfm

Test Engineer: _____

2.4 MULTIPLY the supply air flow rate value calculated in the previous step by .90.

90% of Supply Air Flow Rate 286 cfm

Test Engineer: _____

2.5 DETERMINE the airflow in the exhaust duct per the Airflow Capacity Test given in procedure 7-GN-056.

Exhaust Air Flow Rate 287 cfm

Test Engineer: JAA

2.6 VERIFY the Exhaust Air Flow Rate is equal to or greater than 90% of Supply Air Flow Rate.

Test Engineer: JAA

2.6.1 IF the Exhaust Air Flow Rate is less than 90% of Supply Air Flow Rate, GO TO Section 3.0. N/A if not performed.

Test Engineer: N/A

2.7 GO TO Section 4.0.

3.0 Vent Station Leak Check

3.1 CHECK around Vent Station door seals for signs of air leakage.

3.2 CHECK mechanical joints on Vent Station penetrations for air leakage.

3.3 CHECK connections on air inlet/outlet piping for air leakage.

3.4 REPAIR all leaks found and REPEAT Section 2.0.

4.0 Secure From Test

4.1 STOP the temporary blower.

4.2 DISMANTLE the test set-up and REINSTALL the air inlet elbow and air outlet blind flange.

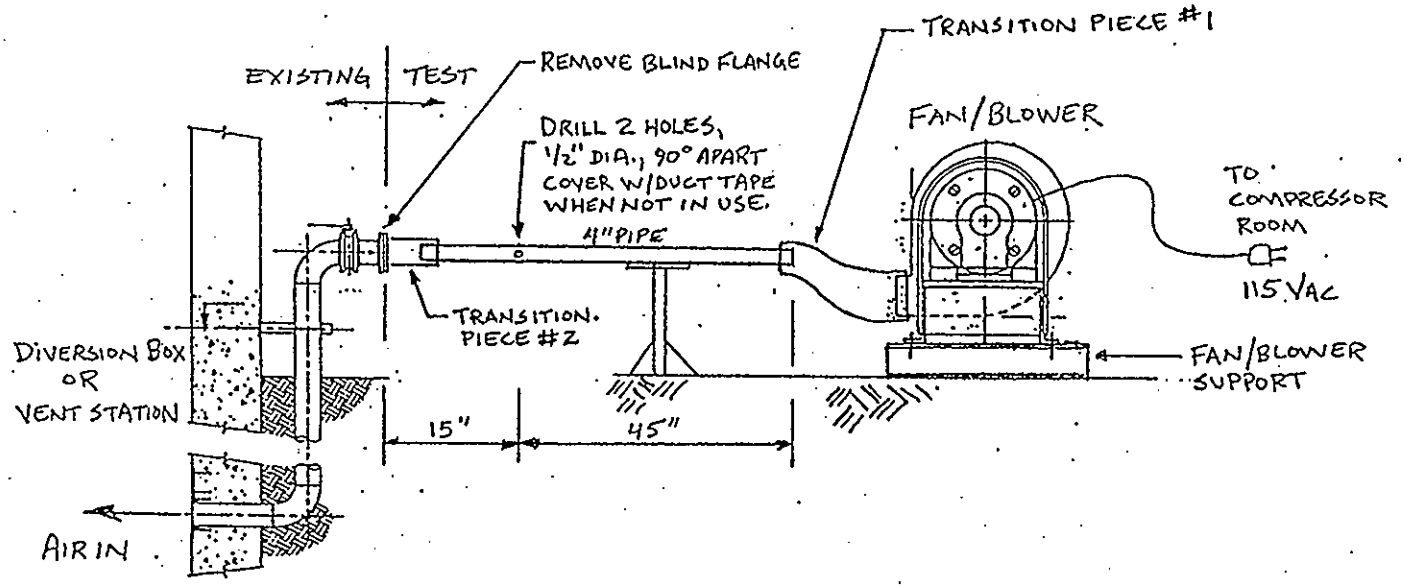
4.3 VERIFY air inlet and outlet match the pre-test configuration.

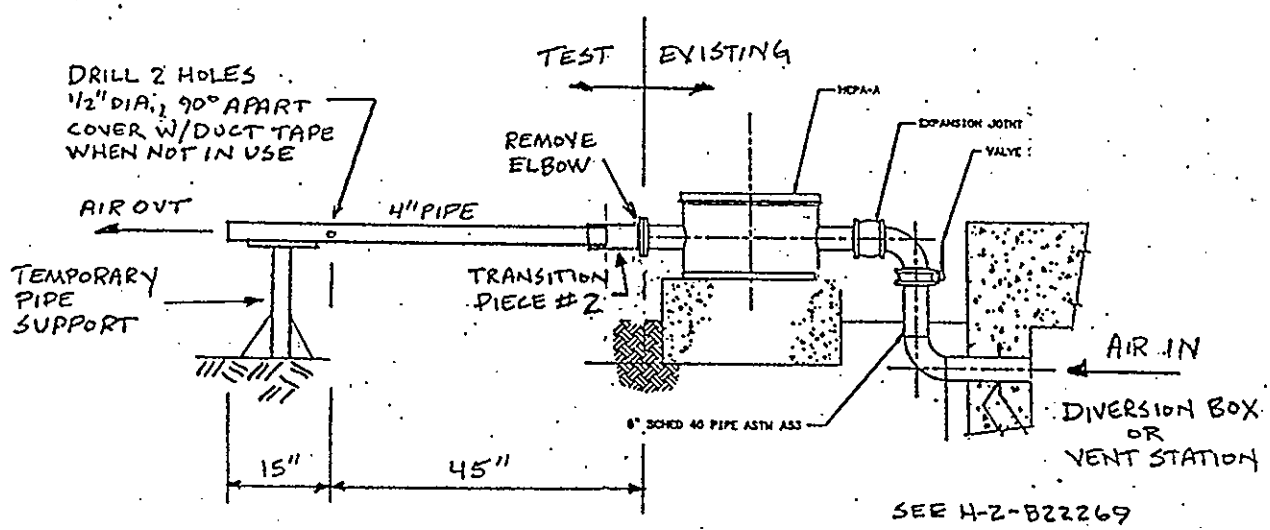
Test Engineer: JAA

4.4 ATTACH completed test data sheets to this procedure.

Test Engineer: JAA

TEST EQUIPMENT SET-UP





(EXAMPLE) SIGNATURE/INITIAL VERIFICATION

All persons involved in procedure performance, data recording, and verification or evaluation of test steps shall provide their name, job title, signature, and initials in the following table.

NAME (PRINT)	TITLE	SIGNATURE	INITIAL
J.E. DUNKS	TEST ENGR		
CR REICHMUTH	TEST DIR.		
PJ ELMENDORF	LMHC QC		

TEST LOG	TEST NUMBER:	TEST LOG PAGE NUMBER: 1 of 1

TEST TITLE:

TIME/DATE	EVENT DESCRIPTION/SIGNATURE
12/3/97	VENT STATION PASSED THE TEST THE FIRST ATTEMPT.
	THE DIVERSION BOX HAD ≈20% ON THE INITIAL ATTEMPT.
	THE DIVERSION BOX ELECTRICAL CONDUITS OUT OF THE
	VAULT AREA WERE RESEALED WITH AN EXPANDING FOAM
	THE STRUCTURE RETESTED AT ≈ 6% LEAKAGE.

TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:	TEST NAME:	T.E. NUMBER:

DESCRIPTION OF PROBLEM:

NONE

ORIGINATOR:

ORG: DATE:

IMPACT ON TESTING: ☐ HOLD FOR RESOLUTION ☐ CONTINUE

TEST ENGINEER DATE

DISPOSITION:

DISPOSITION AND RETEST REQUIREMENTS BY:

DATE

DISPOSITION ACTIONS COMPLETE:

Verified

DATE

QAE CONCURRENCE WITH DISPOSITION (if required):

DATE

RETEST COMPLETE:

TEST ENGINEER DATE

TEST EXCEPTION LOG				
TE #	DATE	DESCRIPTION	DISPOSITIONED	DATE CLOSED
		NONE		

HNF-SD-W058-POTP-006 DIVERSION BOX AIR FLOWS					
INLET					
PORT A				PORT B	
READINGS		VP	FPM	VP	FPM
1	1/8	.79	3560	.82	3627
2	5/8	.86	3714	.83	3649
3	1 1/8	.80	3582	.78	3537
4	2 7/8	.76	3491	.92	3841
5	3 3/8	.69	3327	.97	3944
6	3 7/8	.36	2403	.95	3904
Total FPM			(A) 20077		(B) 22502
Total FPM (A+B)			42579		
AVG FPM (Total FPM÷12)			3548		
CFM (AVG FPM X Area,.0873")			310		

OUTLET					
PORT A				PORT B	
READINGS		VP	FPM	VP	FPM
1	1/8	.56	2997	.58	3050
2	5/8	.85	3692	.82	3627
3	1 1/8	.86	3714	.84	3671
4	2 7/8	.82	3627	.77	3514
5	3 3/8	.79	3560	.76	3491
6	3 7/8	.32	2266	.52	2888
Total FPM			(A) 19856		(B) 20241
Total FPM (A+B)			40097		
AVG FPM (Total FPM÷12)			3341		
CFM (AVG FPM X Area,.0873")			292		

HNF-SD-W058-POTP-006
VENT STATION AIR FLOWS

INLET

PORT A				PORT B	
READINGS		VP	FPM	VP	FPM
1	1/8	.69	3327	.72	3398
2	5/8	.86	3714	.82	3627
3	1 1/8	.94	3883	.84	3671
4	2 7/8	.87	3736	.86	3714
5	3 3/8	.73	3422	.98	3965
6	3 7/8	.73	3422	.94	3883
Total FPM			(A) 21504		(B) 22258
Total FPM (A+B)			43762		
AVG FPM (Total FPM÷12)			3647		
CFM (AVG FPM X Area,.0873")			318		

OUTLET

PORT A				PORT B	
READINGS		VP	FPM	VP	FPM
1	1/8	.46	2716	.59	3076
2	5/8	.58	3050	.68	3303
3	1 1/8	.73	3422	.73	3422
4	2 7/8	.73	3422	.74	3445
5	3 3/8	.74	3445	.76	3491
6	3 7/8	.71	3375	.68	3303
Total FPM			(A) 19430		(B) 20040
Total FPM (A+B)			39470		
AVG FPM (Total FPM÷12)			3289		
CFM (AVG FPM X Area,.0873")			287		

DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution		Date 12/17/97
Project Title/Work Order		EDT No. 623658
Replacement Cross-Site Transfer System		ECN No. N/A

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
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