APPENDIX A

AIR LEAKAGE TEST FORM

NOTE: The Excel Spreadsheet entitled "Pressure Test Data Analysis" is to be used in conjunction with this test form. This spreadsheet may be found under Related Materials at this website: <https://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs/ufgs-07-05-23>.

For buildings constructed in compliance with the U.S. Army Corps of Engineers Air Leakage Protocol

Building Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Building Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prime Contractor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pressure Testing Agency: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Testing Agency Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Testing Agency Contact: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tele: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lead On-site Personnel: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tele: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Test Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Witnesses:

Name Organization Telephone/e-mail

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

INSERT PHOTOGRAPHS OF SUBJECT BUILDING

The testing agency is to provide a Compact Disk (CD) with digital photographs of subject building envelope, setup, test procedures, and diagnostic evaluation. The diagnostic evaluation is to include photos of the envelope as leaks are discovered and after they are sealed.

**STEP 1: Envelope Surface Area**

For each air barrier envelope, record the following information found on the Architectural design drawings or found in Specification SECTION 07 08 27.00 10 BUILDING AIR BARRIER SYSTEM:

1.1 Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_

Architectural Only Test:

1.2 Allowable leakage rate (cfm/sq. ft @ 75 Pa): \_\_\_\_\_\_\_\_\_\_\_

1.3 Maximum leakage (cfm @ 75 Pa): \_\_\_\_\_\_\_\_\_\_\_

Architectural Plus HVAC System Test:

1.4 Allowable leakage rate (cfm/sq. ft. @ 75 Pa): \_\_\_\_\_\_\_\_\_\_

1.5 Maximum leakage (cfm @ 75 Pa): \_\_\_\_\_\_\_\_\_\_\_

Verify the envelope surface area in units of square feet matches the as-built envelope surface area.

Yes / No

If the surface area calculation results do not match, notify the Contracting Officer of the discrepancy and ask him to contact the person who originally calculated the surface area for resolution. Use the resolved surface area in all calculations.

**STEP 2: Set Up Checklist**

2.1 Confirm HVAC shutdown/disabling. \_\_\_\_\_\_

2.2 Confirm all dampers in the air barrier envelope are secured closed and/or isolated. \_\_\_\_\_\_

2.3 Confirm exhaust fans, clothes dryers, etc. are off and the air barrier envelope is isolated. \_\_\_\_\_\_

2.4 Confirm combustion appliances in the envelope are disabled and all gas valves are shut off. \_\_\_\_\_\_

2.5 Confirm all air intakes at the air barrier envelope are sealed or isolated. \_\_\_\_\_\_

2.6 Confirm all doors within the envelope are propped open. \_\_\_\_\_\_

2.7 Confirm all air exhausts at the air barrier envelope are sealed or isolated. \_\_\_\_\_\_

2.8 Note rain or snow conditions that may affect air leaks through walls. \_\_\_\_\_\_

2.9 Confirm doors and windows at the envelope are closed and latched. \_\_\_\_\_\_

2.10 Confirm and document outdoor weather conditions. \_\_\_\_\_\_

2.11 Confirm all plumbing traps within the envelope are primed full of water. \_\_\_\_\_\_

2.12 Confirm dropped ceiling tiles are removed at specified rate. \_\_\_\_\_\_

2.13 Confirm uniform interior pressure distribution by establishing a differential pressure between the envelope and the outdoors with pressurization/depressurization fans operating.

The acceptable range of readings for differential pressure is between [40 Pa to 85 Pa for a 2 sided test for Army and Navy buildings][50 Pa to 85 Pa for a single sided test for Army and Navy buildings][25 Pa to 50 Pa for Air Force buildings]. Ensure that the differential pressure range is a minimum of 25 Pa between the lowest differential pressure reading and the highest. Between10 and 12 differential pressure and corresponding airflow data points shall be recorded at roughly even intervals within the specified range. The highest pressure shall not damage or otherwise compromise the air barrier system or materials. If the indicated pressure range cannot be achieved, install and energize additional pressurization fans as needed.

Extend at least 4 pneumatic hoses (differential pressure monitoring ports) to locations within the envelope that are physically opposite of each other. For buildings with multiple stories hoses shall be extended at least to the bottom floor, top floor and to two other locations between those two floors. Extend one pneumatic hose outdoors. Select one of the 4 interior hoses, the one judged to be the most unaffected by air velocity produced by blower test equipment and most representative of the actual building pressure, to serve as the reference pressure. Measure the differential pressure using each of the remaining 3 interior monitoring stations to ensure each reading is within +/-10% of the reference reading. If this condition cannot be met, attempt to create additional air pathways within the envelope to minimize pressure differences.

Manifold the end of the hose that extends outdoors to 4 additional hoses, each of which terminates on a different side of the building on its exterior.

Internal pneumatic hose location description and corresponding differential pressure:

a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ Pa

b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ Pa

c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ Pa

d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ Pa

Which one of the four differential pressure readings above served as the reference pressure reading? \_\_\_\_\_\_\_\_\_

Describe the approximate location of the end of the 4 pneumatic hoses (monitoring station) that extend to the outdoors:

a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Means of averaging pressures of multiple tubes (physically manifolded together or mathematically averaged): \_\_\_\_\_\_\_\_\_\_\_\_\_

Additional Set up notes:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**STEP 3 Testing Equipment**

Gage 1

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gage 2

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gage 3

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gage 4

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gage 5

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gage 6

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Note: Identify additional gages as necessary.

Note: Each gage must have an accuracy of plus or minus 1 percent or 0.15 Pa, whichever is greater and must have had its calibration checked against a National Institute of Standards and Technology (formerly National Bureau of Standards, or NIST) traceable standard within 2 years of the test. If the gage manufacturer recommends yearly testing, the calibration date is to be within one year of the test date.

Fan 1

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fan 2

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fan 3

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fan 4

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fan 5

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fan 6

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Note: Identify additional fans as necessary.

Note: Each fan must have an air flow measurement accuracy of ± 5 percent of the measured flow and must have had its calibration checked against a NIST traceable standard. Each fan is to have been calibrated within the last 5 years of the date of the test.

Thermographic Infrared Camera

Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Accuracy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Last Calibration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The thermographic infrared camera must have a sensitivity of plus or minus 0.1 degrees C.

Include calibration certificates for all test equipment listed above with the air leakage test form and the final test report.

**STEP 4: Perform a multipoint pressure test**

4.1 Record indoor and outdoor temperatures before and after the test.

Indoor pre-test: \_\_\_\_\_ degrees F Indoor post-test: \_\_\_\_\_ degrees F

Outdoor pre-test: \_\_\_\_\_ degrees F Outdoor post-test: \_\_\_\_\_ degrees F

4.2 Record wind speed and prevailing wind direction

Average speed, mph: \_\_\_\_\_\_\_\_\_\_\_\_ Prevailing direction: \_\_\_\_\_\_\_\_\_\_\_\_\_

4.3 Record approximate elevation of the building above sea level: \_\_\_\_\_\_\_\_ feet

4.4 Indicate which of the following methods was used to test the building:

\_\_\_\_\_\_ Building’s own air handling system

\_\_\_\_\_\_Trailer-mounted fan

\_\_\_\_\_\_Blower door fan

Indicate which Service branch the building falls under:

\_\_\_\_\_ Air Force

\_\_\_\_\_ Army

\_\_\_\_\_ Navy

4.5 With all test blowers de-energized and sealed (covers applied), use a digital gage to obtain 12 baseline/bias pressure readings where each reading is the average of at least 10 one-second measurements. Record readings below:

Bias Pressure Test Point 1 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 2 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 3 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 4 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 5 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 6 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 7 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 8 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 9 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 10 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 11 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 12 reading: \_\_\_\_\_\_\_\_ Pa

4.6 All of the values obtained in step 4.5 are to be 30 percent or less than the lowest test pressure as documented in step 4.7. If one or more values is greater than 30 percent of the lowest test pressure, repeat steps 4.5 and 4.7. If at least 1 reading is still greater than 30 percent of the lowest test pressure, wait to test until wind speed lessens or reschedule the test to a time when atmospheric conditions are more favorable.

4.7 Pressure Test

4.7.1 Identify the flow direction of the pressurized air. In a negative pressure test air is drawn out of the envelope to the outdoors, thereby negatively pressurizing the envelope with respect to the outdoors. In a positive pressure test outdoor air is delivered to the envelope, thereby positively pressurizing the envelope with respect to the outdoors. Pressure test in both the positive and negative directions unless extenuating circumstances allow testing in only one direction. If testing in only one direction, provide a detailed explanation for omitting the opposite direction's test:

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

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

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

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

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

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

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

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

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

The testing agency is to supply a sufficient quantity of blower equipment that will produce a minimum 75 Pa differential pressure between the envelope and outdoors. Record the actual envelope pressures (Pa) from one or more interior pneumatic hoses (monitoring ports) and the outdoor pneumatic hose(s) (monitoring port(s)), averaged or manifolded, with corresponding Flows (CFM) for each fan.

For testing in both directions:

Adjust the test fan(s) speed to establish a range of 10 to 12 roughly equally spaced envelope pressure readings per flow direction (20 to 24 points total) where each reading is an average of 10 one-second measurements. The greatest baseline/bias pressure must not exceed 30 percent of the minimum test pressure recorded.

For testing in one direction only:

Adjust the test fan(s) speed to establish a range of 10 to 12 roughly equally spaced envelope pressure readings where each reading is an average of 10 one-second measurements. The test pressure range must be between [50 and 85 Pa for Army and Navy buildings][25-50 Pa for Air Force buildings]. The greatest baseline/bias pressure must not exceed 10 percent of the minimum test pressure recorded.

4.7.2 Pressure test in one direction. Indicate whether this test is a negative pressure test or a positive pressure test. Circle one: Positive/Negative

Reading 1

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 2

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 3

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 4

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 5

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 6

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 7

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 8

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 9

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 10

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 11

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 12

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

4.7.3 Pressure test in opposite direction. If testing in only one direction, skip this step. Indicate whether this test is a negative pressure test or a positive pressure test. Circle one: Positive/Negative

(Note: If using blower door equipment, remove the test fans from their frame, turn them around 180 degrees, and reinsert them into their frame. Connect pneumatic hoses as necessary to the gage.)

Reading 1

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 2

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 3

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 4

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 5

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 6

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 7

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 8

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 9

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 10

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 11

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Reading 12

Differential Pressure, Pa: \_\_\_\_\_\_

Fan 1 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 2 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 3 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 4 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 5 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

Fan 6 Flow, CFM: \_\_\_\_\_\_\_\_ Orifice plate designation:\_\_\_\_\_\_\_\_\_ Fan Model:\_\_\_\_\_\_\_\_\_\_\_

4.8 With all test blowers de-energized and sealed (covers applied) , use a digital gage to obtain 12 baseline/bias pressure readings where each reading is the accumulated average of at least ten 1-second measurements. Record readings below:

Bias Pressure Test Point 1 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 2 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 3 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 4 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 5 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 6 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 7 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 8 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 9 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 10 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 11 reading: \_\_\_\_\_\_\_\_ Pa

Bias Pressure Test Point 12 reading: \_\_\_\_\_\_\_\_ Pa

4.9 If all of the values obtained in step 4.8. are 30 percent or less than the lowest test pressure recorded in step 4.7. 2 and 4.7.3, proceed with step 4.10. If one or more values is greater than 30 percent of the lowest test pressure, repeat steps 4.5 through 4.8. If at least one reading is still greater than 30 percent of the lowest test pressure, wait to test until wind speed lessens or reschedule the test to a time when atmospheric conditions are more favorable.

4.10 Make copies of data recorded in this form. Distribute copies to the Government inspector and Contractor.

**STEP 5 Calculate and Report Results**

Pressurization Test Results

5.1 Air leakage coefficient C: \_\_\_\_\_\_\_\_\_ CFM/Pan

5.2 Pressure exponent n: \_\_\_\_\_\_\_\_

(NOTE: If n is less than 0.45 or greater than 0.8, the test fails and must be repeated.)

5.3 Air flow referenced to standard temperature and pressure at +75 Pa: \_\_\_\_\_\_\_\_\_\_\_\_ CFM

5.4 Envelope leakage rate at 75 Pa: \_\_\_\_\_\_\_\_\_ CFM/sq ft of envelope surface area at 75 Pa.

5.5 Data correlation coefficient, r2, of the curve fitted data points. Correlation coefficient: \_\_\_\_\_\_\_\_\_

(NOTE: If r2 is less than 0.98, test fails and must be repeated.)

5.6 The 95 percent (upper) confidence interval at +75 Pa: \_\_\_\_\_\_ CFM/sq ft at 75 Pa.

Depressurization Test Results

5.7 Air leakage coefficient Cd: \_\_\_\_\_\_\_ CFM/Pan

5.8 Pressure exponent n: \_\_\_\_\_\_\_\_\_\_

(NOTE: if n is less than 0.45 or greater than 0.8, the test fails and must be repeated.)

5.9 Air flow referenced to standard temperature and pressure at -75 Pa: \_\_\_\_\_\_\_\_\_CFM

5.10 Envelope leakage rate at 75 Pa: \_\_\_\_\_\_\_\_\_ CFM/sq ft of envelope surface area at -75 Pa.

5.11 Data Correlation Coefficient, r2, of the curve fitted data with all (12 or 24) points. Correlation coefficient: \_\_\_\_\_\_\_\_\_

(NOTE: if r2 is less than 0.98, the test fails and must be repeated.)

5.12 The 95 percent (upper) confidence interval at +75 Pa: \_\_\_\_\_\_\_\_\_ CFM/sq ft at 75 Pa.

Both Pressurization and Depressurization Test Results:

5.13 Leakage rate per envelope area at 75 Pa: \_\_\_\_\_\_\_\_\_\_\_\_\_ CFM/sq ft at 75 Pa

5.14 Was the calculated envelope leakage less than or equal to the leakage rate goal. Circle one: Pass / Fail

5.15 To help visualize the magnitude of the envelope's air leakage, document the equivalent leakage area in square feet at 75 Pa: \_\_\_\_\_\_\_ sq ft.

5.16 Attach the results of the Air Leakage Rate by Fan Pressurization spreadsheet program to this test form.

**STEP 6 Diagnostic Evaluation**

6. Perform a diagnostic evaluation of the envelope in accordance with ASTM E 1186. Attach results of diagnostic evaluation including a floor plan of all floors within the envelope to this test form. Document the location of all leaks on the floor plan and describe the treatment method used to seal the leaks.

**STEP 7 Restore Building to Pre-test Conditions**