

# 2005 ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE

## Ventilation System Acceptance Document

MECH-2-A

NJ.3.1, NJ.3.2

Form 1 of 2

PROJECT NAME		DATE
PROJECT ADDRESS		Checked by/Date Enforcement Agency Use
TESTING AUTHORITY	TELEPHONE	
VENTILATION SYSTEM NAME / DESIGNATION		

**Intent:** Verify measured outside airflow CFM is within  $\pm 10\%$  of the total required outside airflow value found in the Standards Mechanical Plan (MECH-3, Column I), per 121(f).

### Construction Inspection

- 1 Instrumentation to perform test includes, but not limited to:
  - a. Watch
  - b. Means to measure airflow (hot wire anemometer or pitot tube)
- 2 Check one of the following:
  - Variable Air Volume (VAV) - Check as appropriate:
    - a. Sensor used to control outdoor air flow must have calibration certificate or be field calibrated
      - Calibration certificate (attach calibration certification)
      - Field calibration (attach results)
  - Constant Air Volume (CAV) - Check as appropriate:
    - System is designed to provide a fixed minimum OSA when the unit is on

**Certification Statement:** I certify that all statements are true on this MECH-2-A form including the PASS/FAIL Evaluation. I affirm I am eligible to sign this form under the provisions described in the Statement of Acceptance on form MECH-1-A

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

Company: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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**Form 2 of 2\_**

PROJECT NAME	DATE
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<b>A. Equipment Testing</b>		<b>CAV</b>	<b>VAV</b>
a.	Constant or Variable Air Volume (CAV or VAV) - check appropriate column		
b.	Verify unit is not in economizer mode during test - check appropriate column		
<b>Step 1: CAV and VAV testing at full supply airflow</b>			
1	Drive boxes open (check)		
2	Measured outdoor airflow (cfm)		
3	Required outdoor airflow (cfm) <i>(from MECH-3, column I)</i>		
4	Time for outside air damper to stabilize after VAV boxes open (minutes)		
5	Return to initial conditions (check)		
<b>Step 2: VAV testing at reduced supply airflow</b>			
1	Drive boxes to minimum (check)		
2	Measured outdoor airflow (cfm)		
3	Required outdoor airflow (cfm) <i>(from MECH-3, column I)</i>		
4	Time for outside air damper to stabilize after VAV boxes open (minutes)		
5	Return to initial conditions (check)		

<b>B. Testing Calculations &amp; Results</b>		<b>CAV</b>	<b>VAV</b>
Step 1: % Outdoor Air = Measured outside air /Required outside air (Step1:2/Step1:3)		%	%
90% < %Outdoor Air > 110% to 90% = %Outdoor Air = 110%		Y / N	Y / N
Outside air damper position stabilizes within 15 minutes (Step 1:4 < 15 minutes)		Y / N	Y / N
Step 2: % Outdoor Air = Measured outside air /Required outside air (Step2:2/Step2:3)			
90% < %Outdoor Air > 110% to 90% = %Outdoor Air = 110%			Y / N
Outside air damper position stabilizes within 15 minutes (Step 2:4 < 15 minutes)			Y / N

**Note: Shaded areas do not apply for particular test procedure**

<b>C. PASS / FAIL Evaluation (check one):</b>	
<input type="checkbox"/>	PASS: All <b>Construction Inspection</b> responses are complete and <b>Testing Calculations &amp; Results</b> responses are positive (Y - yes)
<input type="checkbox"/>	FAIL: Any <b>Construction Inspection</b> responses are incomplete <i>OR</i> there is one or more negative (N - no) responses in <b>Testing Calculations &amp; Results</b> section. Provide explanation below. Use and attach additional pages if necessary.