Intent: Verify measured outside airflow CFM is within ± 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: _________________

2005 Compliance Acceptance Forms September 2005
# Ventilation System Acceptance Document

**MECH-2-A**

**NJ.3.1, NJ.3.2**

## 2005 ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE

### A. Equipment Testing

- **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

#### Step 1: CAV and VAV testing at full supply airflow

1. Drive boxes open (check)
2. Measured outdoor airflow (cfm)
3. Required outdoor airflow (cfm) *(from MECH-3, column I)*
4. Time for outside air damper to stabilize after VAV boxes open (minutes)
5. Return to initial conditions (check)

#### Step 2: VAV testing at reduced supply airflow

1. Drive boxes to minimum (check)
2. Measured outdoor airflow (cfm)
3. Required outdoor airflow (cfm) *(from MECH-3, column I)*
4. Time for outside air damper to stabilize after VAV boxes open (minutes)
5. Return to initial conditions (check)

### B. Testing Calculations & Results

#### Step 1: % Outdoor Air = Measured outside air / Required outside air *(Step1:2/Step1:3)*

- 90% < %Outdoor Air > 90% = %Outdoor Air = 110%
- Outside air damper position stabilizes within 15 minutes *(Step 1:4 < 15 minutes)*

#### Step 2: % Outdoor Air = Measured outside air / Required outside air *(Step2:2/Step2:3)*

- 90% < %Outdoor Air > 110% to 90% = %Outdoor Air = 110%
- Outside air damper position stabilizes within 15 minutes *(Step 2:4 < 15 minutes)*

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

### C. PASS / FAIL Evaluation (check one):

- **PASS:** All **Construction Inspection** responses are complete and **Testing Calculations & Results** responses are positive *(Y - yes)*
- **FAIL:** Any **Construction Inspection** responses are incomplete OR there is one or more negative *(N - no)* responses in **Testing Calculations & Results** section. Provide explanation below. Use and attach additional pages if necessary.