8.026

DCR No. 97027 Revision No. 1 Effective: 3-7-97 Supersedes: 3-7-97 Revision Date: 5-7-97 Page No.: 1 of 3

1 Purpose

1.1 To establish a standard procedure to determine room air change rate.

2 Scope

2.1 This procedure will apply to all rooms.

3 References

3.1 NEBB Procedural Standards for Certified Testing of Cleanrooms, First Edition - October, 1988.

4 Definition

- 4.1 CFM Cubic Feet per Minute
- 4.2 Room Air Change Rate
 - 4.2.1 The number of times the total volume of a given room in cubic feet is changed in a one hour span.
- 4.3 TAB Test, Adjust, and Balance
- 5 Responsibility
 - 5.1 TAB technicians shall record all test readings on Form FN 8.026.1 (Air Changes Per Hour Test Report).
 - 5.2 All test reports shall be saved in files located in the TAB Department of Therma.
 - 5.3 All test equipment utilized shall be in calibration in accordance with NEBB Standards and traceable to the National Institute of Standards and Technology (NIST).
- 6 Materials Requirement
 - 6.1 None
- 7 Test Equipment

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7.1 Tape Measure

- 8 General Procedures
 - 8.1 Review available blueprints and room pressure design diagrams.
 - 8.2 Inspect any room pressure measurement devices.
 - 8.3 Inspect the room for any obvious deficiencies that would affect the room pressure and airflow rates.
 - 8.4 Determine the volume of each room to be tested by using the tape measure to determine the room length, width and height. Volume = L x W x H.
 - 8.5 Measure the actual inlet airflow as per SOP 8.005 (Air Outlet Testing).
 - 8.6 Record all data on the Form FN 8.026.1 (Air Changes Per Hour Test Report.
 - 8.7 Room air change rate = (Supply CFM X 60)/ Room Volume

9 Review and Approval

9.1 Return the Form FN 8.026.1 (Air Changes Per Hour Test Report) to the TAB Department for review.

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Document Approval

General Foreman

Service Manager

Quality Assurance Manager

15 Date

Date

4-16 47 Date

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