Project Name and Address	**Authority Having Jurisdiction**
Name:	Enforcement Agency:
Address:	Permit Number:
City, Zip:	Permit Application Date:

Building:	Floor:	Room:	Control/tag:

☐ Construction inspection and functional testing comply ☐ Does not comply	Date Submitted to AHJ:

Intent:	The document is used to demonstrate compliance with acceptance requirements §140.9(c)3 and Reference Nonresidential Appendix NA7.16

Table A-1: Construction Inspection - Wind Speed/Direction Control

Step	Entry	Item	Code Reference
1	☐ Pass ☐ Fail	Anemometer sensor factory calibration certificate is valid or recalibrated within manufacturer's recommendations or no more than 5 years.	NA7.16.1 §140.9(c)3Ciii
2	☐ Pass ☐ Fail	Sensor located at a height outside the wake region of nearby structures and experiences similar wind conditions to the free stream environment above the exhaust stacks	NA7.16.1(b) §140.9(c)3ci
3	☐ Pass ☐ Fail	Sensor installed in close proximity to the fan it controls so that it captures a representative wind speed/direction	NA7.16.1(c) §140.9(c)3Ci
4	☐ Pass ☐ Fail	Sensor wired correctly to controls ensuring proper volume flow rate control	NA7.16.1(d) §140.9(c)3Civ
5	☐ Pass ☐ Fail	Wind speed/direction look-up table establish and match dispersion analysis results	NA7.16.1(e) §140.9(c)3Cii
6	☐ airflow ☐ static press ☐ speed/vol ☐ other:	Verify methodology used to measure volume flow rate. Method used (airflow sensor, static pressure, fan speed to volume flow rate curve, specified-other):	NA7.16.1(f)
7	☐ Pass ☐ Fail	Verify that the Construction Inspection complies with all requirements.	N/A

Table B-1: Functional Testing - Wind Speed/Direction Control

Step	Entry	Functional Test	Code Reference
1.1	☐	Simulate minimum look-up table wind speed by either covering the anemometer sensor or overriding the curve points so that the current wind speed is below the speed correlating to the minimum volume flow rate at the stack.	NA7.16.2 step 1
1.2	☐ Pass ☐ Fail	With all sensors active and reading below the minimum wind speed, verify that stack volume flow rate matches minimum flow rate from look-up table.	NA7.16.2 step 1(a), §140.9(c)3Cii
1.3	☐	Restore all curve points.	NA7.16.2 step 1(b)
2.1	☐	Simulate mid-range look-up table wind speed by either inducing a wind current, with an air speed accuracy of +/- 2%, or overriding the curve points so that the current wind speed correlates to a mid-range stack volume flow rate.	NA7.16.2 step 2, §140.9(c)3Cii
2.2	☐ Pass ☐ Fail	With all sensors active and reading a mid-range wind speed, verify that the stack volume flow rate matches mid-range flow rate from corresponding wind speed in look-up table.	NA7.16.2 step 2(a), §140.9(c)3Cii
2.3	☐	Restore all curve points.	NA7.16.2 step 2(b)
3.1	☐ Pass ☐ Fail	Simulate maximum look-up table wind speed by either inducing a wind current, with an air speed accuracy of +/- 2%, or overriding the curve points so that the current wind speed correlates to the maximum stack volume flow rate at the stack.	NA7.16.2 step 3
3.2	☐	Verify that the stack volume flow rate matches maximum flow rate from look-up table.	NA7.16.2 step 3(a), §140.9(c)3Cii
3.3	☐	Restore all curve points.	NA7.16.2 step 3(b)
4.1	☐	Temporarily override the sensor calibration/replacement period to 5 minutes. Wait 5 minutes.	NA7.16.2 step 4, §140.9(c)3Civ
4.2	☐ Pass ☐ Fail	Verify that the minimum stack volume flow rate is matches the flow rate corresponding to worst-case wind conditions documented in dispersion analysis and alarm is received by facility operators	NA7.16.2 step 4, §140.9(c)3Civ
4.3	☐	Restore calibration/replacement period.	NA7.16.2 step 4
5.1	☐	Simulate sensor failure by disconnecting the anemometer.	NA7.16.2 step 5
5.2	☐ Pass ☐ Fail	Verify that the minimum stack volume flow rate matches the flow rate corresponding to worst-case wind conditions documented in dispersion analysis and alarm is received by facility operators	NA7.16.2 step 5, §140.9(c)3Civ

Step	Entry	Functional Test	Code Reference
5.3	☐	Reconnect sensor.	NA7.16.2 step 5
6	☐ Pass ☐ Fail	Verify that the Functional Test complies with all requirements.	N/A

Table A-2: Construction Inspection - Contaminant Concentration Control

Step	Entry	Item	Code Reference
1	☐ Pass ☐ Fail	Contaminant sensor factory calibration certificate is valid or recalibrated within manufacturer's recommendations.	NA7.16.3(a), §140.9(c)3Dii
2	☐ Pass ☐ Fail	Contaminant sensor located within each exhaust plenum	NA7.16.3(b), §140.9(c)3D
3	☐ Pass ☐ Fail	Contaminant sensor wired correctly to controls ensuring proper volume flow rate control	NA7.16.3(c), §140.9.(c)3Di
4	☐ Pass ☐ Fail	Contaminant concentration threshold has been established and matches dispersion analysis result	NA7.16.3(d), §140.9(c)3Di
5	☐ Pass ☐ Fail	Verify methodology used to measure volume flow rate. Method used (airflow sensor, static pressure, fan speed to volume flow rate curve, specific-other)	NA7.16.3(e)
6	☐ airflow ☐ static press ☐ speed/vol ☐ other:	Verify methodology used to measure volume flow rate. Method used (airflow sensor, static pressure, fan speed to volume flow rate curve, specified-other):	NA7.16.3(e)
7	☐ Pass ☐ Fail	If multiple sensors are present, fan control is based on highest concentration reading	NA7.16.3(f)
8	☐ Pass ☐ Fail	Check if construction inspection complies with all requirements.	N/A

Table B-2: Functional Testing - Contaminant Concentration Control

Step	Entry	Functional Test	Code Reference
1	☐ Pass ☐ Fail	Ensure that no contaminant event is active. Simulate a minimum exhaust air demand in all lab spaces. Verify that the stack volume flow rate is equal to or greater than corresponding non-event value.	NA7.16.4 step 1, §140.9(c)3Di
2	☐ Pass ☐ Fail	Simulate a mid-range exhaust air demand in all lab spaces. Verify that the stack volume flow rate is greater than, or equal to the corresponding non-event value.	NA7.16.4 step 2, §140.9(c)3Di
3.1	☐	Simulate a mid-range exhaust air demand in all lab spaces.	NA7.16.4 step 3

Step	Entry	Functional Test	Code Reference
3.2	☐	Simulate a contamination event.	NA7.16.4 step 3
3.3	☐ Pass ☐ Fail	Verify that the volume flow rate at the stack is at or above the minimum event value.	NA7.16.4 step 3, §140.9(c)3Diii
4	☐ Pass ☐ Fail	Increase exhaust air demand at the lab spaces. Verify the stack volume flow rate is at or above the minimum value.	NA7.16.4 step 4
5.1	☐	Temporarily override the sensor calibration/ replacement period to 5 minutes.	NA7.16.4 step 5
5.2	☐	Wait 5 minutes.	NA7.16.4 step 5
5.3	☐ Pass ☐ Fail	Restore calibration/replacement period.	NA7.16.4 step 5
6.1	☐ Pass ☐ Fail	Simulate sensor failure by disconnecting the sensor. Verify that the volume flow rate is at or above the required for a contaminant event or greater and that an alarm is received by the facility operators.	NA7.16.4 step 6, §140.9(c)3Diii
6.2	☐	Reconnect sensor	NA7.16.4 step 6
7	☐ Pass ☐ Fail	Verify that the Functional Test complies with all requirements.	N/A

Declaration Statement	Signatory
Document Author I assert that this Certificate of Acceptance documentation is accurate and complete.	
Field Technician I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Acceptance is true and correct. I am the person who performed the acceptance verification reported on this Certificate of Acceptance (Field Technician). The construction or installation identified on this Certificate of Acceptance complies with the applicable acceptance requirements indicated in the plans and specifications approved by the enforcement agency and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and signed by the responsible builder/installer and has been posted or made available with the building permit(s) issued for the building.	
Responsible Person I assert the following under penalty of perjury, under the laws of the State of California: I am the Field Technician, or the Field Technician is acting on my behalf as my employee or my agent and I have reviewed the information provided on this Certificate of Acceptance. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Acceptance and attest to the declarations in this statement (responsible acceptance person). The information provided on this Certificate of Acceptance substantiates that the construction or installation identified on this Certificate of Acceptance complies with the acceptance requirements indicated in the plans and specifications approved by the enforcement agency and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and is posted or made available with the building permit(s) issued for the building. I understand that a completed, signed copy of this Certificate of Acceptance shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to ensure this requirement is accomplished. I understand that a signed copy of this Certificate of Acceptance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to ensure this requirement is accomplished.	