

INSTALLER AND INSPECTOR QUICK-REFERENCE: 2025-NRCA-PRC-03-F Parking Garage Ventilation Systems	
Purpose and Scope of the Test	
Verify that mechanical ventilation systems function properly and CO levels are maintained in a healthy range.	
Test trigger	
<p>Newly Constructed and Additions/Alterations: All newly installed parking garage ventilation systems of 10,000 cubic feet per minute (cfm) with carbon monoxide control must be tested.</p> <p>Exceptions: Garages, or portions of a garage, where more than 20% of the vehicles expected to be stored have non-gasoline combustion engines, and additions or alterations to existing garages where less than 10,000 cfm of new exhaust capacity are being added are not required to be tested.</p>	
Relevant Energy Code References and Required Compliance Documents	
Title 24, Part 6 of the California Building Code, Building Energy Efficiency Standards (Energy Code) sections 120.6(c), 160.2(d); and NA7.12; NRCC-PRC-E Table H; NRCI-PRC-E, Enclosed Parking Garage Exhaust Controls Table.	
Who Can Perform the Test	
<p>There are no restrictions.</p> <p>Note that the contractor can complete the test, and ATTCP certification is not required for this test at this time.</p>	
Required Tools	
<p>The instrumentation needed to perform the test may include, but is not limited to:</p> <ul style="list-style-type: none"> • Space differential pressure sensor. • CO span gas with a concentration of 30 ppm (+/- 2 percent). 	
Estimated Time to Complete Test	
<ul style="list-style-type: none"> • Construction inspection: 1 hour. • Functional testing: 2 hours. 	
Potential Issues and Cautions	
Coordinate test procedures with the facility supervisor since they may be needed to assist with the manipulation of the control system.	

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Inspection Enforcement

- Verify that the carbon monoxide control sensor is factory-calibrated per §120.6(c).
- Verify that the sensor is located in the highest expected concentration location in its zone per §120.6(c).
- Verify that the control setpoint is at or below the CO concentration permitted by §120.6(c).

Acceptance Criteria

During a time with CO concentration well below setpoint:

- Verify that all sensors are active and reading a setpoint of < 25 ppm.
- Verify that exhaust fans are running at minimum speed.
- Verify that exhaust fans are drawing 30% or less of design wattage.

Applied required CO span gas testing:

- Verify that all sensors active and reading a setpoint of between 25 and 35 ppm.
- Verify that exhaust fans are running at maximum speed while gas is applied.
- Verify that the exhaust fans go back to minimum speed when span gas is removed.

Override testing:

- Temporarily override the programmed sensor calibration/replacement; verify that fans ramp to full speed and an alarm is received by the facility operators.
- Temporarily place system in unoccupied mode and simulate occupancy by altering occupancy sensor settings; verify that fans ramp to full speed and an alarm is received by the facility operators.
- Temporarily override the programmed occupied sensor proximity zone alarm differential; verify that fans ramp to full speed and an alarm is received by the facility operators.