



CLARK COUNTY AIR QUALITY REGULATIONS

Section 104: VOC Emissions Control for Industrial Cleaning Solvent Operations

Fact Sheet

April 2024

DEFINITIONS

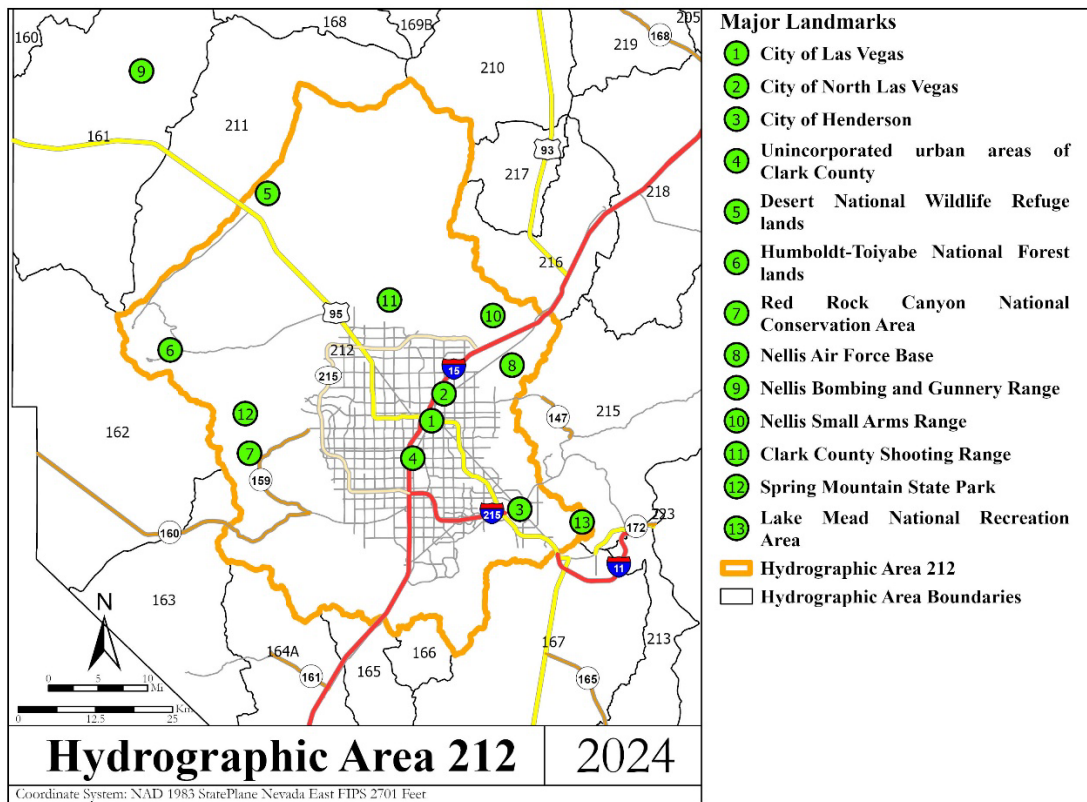
“Industrial cleaning solvent operations” means the use of solvents to remove contaminants, including, but not limited to, adhesives, inks, paint, dirt, soil, oil, and grease, from parts, products, tools, machinery, equipment, vessels, and work production-related areas for a variety of reasons, including safety, operability, and avoiding product contamination. This includes activities such as wiping, flushing, spraying, dipping, and purging. It also includes the cleaning of equipment used to remove contaminants. It does not include the solvent(s) used in a metal solvent degreaser, outlined in Section 105 (Section 105.3, “Definitions”).

“Projected maximum emissions” (PME) means the highest annual rate, in tons per year, at which the stationary source is projected to emit VOC based on anticipated production, throughput, heat input, or material utilization rates that does not include emission reductions from add-on controls (Section 101.3, “Definitions”).

“Stationary source” means any building, structure, facility, or installation that emits or may emit any regulated pollutant ([Section 0, “Definitions”](#)).

AREA OF APPLICABILITY

The rule applies to an area known as Hydrographic Area 212 (HA212) which is roughly 1,500 square miles of the Las Vegas Valley (See map below). The rule also applies to any other area designated with a “moderate” or higher ozone nonattainment classification within Clark County on or after January 5, 2023.





CLARK COUNTY AIR QUALITY REGULATIONS

Section 104: VOC Emissions Control for Industrial Cleaning Solvent Operations

Fact Sheet

April 2024

APPLICABILITY

Applicable

Section 104 is applicable to any owner or operator of a stationary source with PME of volatile organic compounds (VOC) **equal to or greater than 3.0 tons per calendar year** from industrial cleaning solvent operations (Section 104.4 lists exemptions from parts of this rule).

Sections 104.6, 104.7(c)–(d), and 104.8–104.10 (on work practices (including periodic inspections and training and registration, notification, and recordkeeping requirements) apply to any owner or operator of a stationary source with a PME of VOC of **less than 3.0 tons per calendar year** from industrial cleaning solvent operations (Section 104.4 lists exemptions from parts of this rule).

Not Applicable

Section 104 does not apply to stationary sources using less than 500 gallons (1,892 L) of industrial cleaning solvent per calendar year (Section 104.2(c)(1)).

Section 104 does not apply when industrial cleaning solvents are used to clean any of the following equipment or used in the following operations (Section 104.4(c)(2)):

- Janitorial services
- Electrical and electronic components
- Precision optics
- Resin mixing, molding, and application equipment
- Coating, ink, and adhesive mixing, molding, and application equipment
- Stripping of cured inks, cured adhesives, and cured coatings
- Research and development laboratories
- Medical devices
- Pharmaceutical preparations
- Performance or quality assurance testing of coatings, inks, or adhesives
- Architectural coating manufacturing and application operations
- Magnet wire coating operations
- Semiconductor wafer fabrication or
- Polyester resin operations.

EXEMPTIONS

A stationary source may be excluded from portions of the regulation based on materials used (see Section 104.4). See the accompanying [flow diagram](#) showing the criteria needed to claim an exemption and the regulations that may still apply.

EMISSIONS STANDARDS FOR STATIONARY SOURCES WITH PME EQUAL TO OR GREATER THAN 3.0 TONS OF VOC PER YEAR

VOC emissions must be controlled by complying with one of the emissions standards outlined in Section 104.5:

- Use industrial cleaning solvents with a VOC content equal to or less than 0.42 lb/gal (50 g/L), as applied, excluding water and exempt compounds;
- Use industrial cleaning solvents with a maximum composite vapor pressure of 8.0 mm Hg measured at 68°F (20°C); or



CLARK COUNTY AIR QUALITY REGULATIONS

Section 104: VOC Emissions Control for Industrial Cleaning Solvent Operations

Fact Sheet

April 2024

- Reduce VOC emissions by at least 85% by weight using an emissions control system (ECS), or reduce them by an overall percent efficiency equivalent to 85% by using a given formula that relates VOC contents.

If an owner or operator chooses to use an ECS, then an operations and maintenance plan must be developed per Section 104.7.1. In addition, ECS monitoring devices must be installed and maintained according to manufacturer specifications.

COMPLIANCE DATES

Document / Requirement	Due Date
Compliance dates for all applicable stationary sources	
Compliance with Section 104 for existing stationary source (Section 104.10(a))	No later than September 29, 2024, or when the stationary source commences normal operations or becomes subject to any requirements in Section 104, whichever is later
Compliance with Section 104 for new stationary source (Section 104.10(b))	Upon commencing normal operations
Owner or operator who already has a stationary source permit or is already complying with another SIP-approved regulation	
Permit revision instead of registration application (Section 104.8(d))	No later than September 29, 2024 or 45 days after becoming subject to any requirements in Section 104, whichever is later
Notice of exemption instead of registration application (Section 104.9.1(b))	Within 30 days of compliance date in Section 104.10
Compliance with Section 104.5; Control Officer's discretion on accepting alternative compliance date (Section 104.10(e))	No later than April 2, 2027
Registration and recordkeeping for all applicable stationary sources	
Registration application (Section 104.8(a)(1))	No later than September 29, 2024 or 45 days after becoming subject to any requirements in Section 104, whichever is later
Registration application revision update for material change (Section 104.8(a)(2))	Within 60 days of material change
Record retention (Section 104.9.2(a)(2))	5 years from creation
All records for review (Section 104.9.2(a)(3))	Upon request from Control Officer during hours of operation
Record of volume of VOC-containing materials used in previous month (Section 104.9.2(a)(4))	Monthly
Record of emissions calculations (Section 104.9.2(a)(6))	Every calendar year
PME equal to or greater than 3.0 tons of VOC	
Registration revision if previous registration listed PME equal to or greater than 3.0 tons of VOC, but less than 3.0 tons of VOC were emitted and reported in each of previous three consecutive calendar years (Section 104.8(c))	As applicable



CLARK COUNTY AIR QUALITY REGULATIONS

Section 104: VOC Emissions Control for Industrial Cleaning Solvent Operations

Fact Sheet

April 2024

Document / Requirement	Due Date
Annual emissions inventory (Section 104.9.3(b))	On or before March 31 of each year
Use of noncompliant materials in existing inventory (Section 104.10(c))	April 2, 2025 or 12 months after first becoming subject to Section 104, whichever is later
Compliance using ECS (Section 104.10(d))	September 24, 2025
If using a performance test to determine the control efficiency of the ECS	
Conduct ECS performance test (Section 104.9.1(a)(1))	Within 180 days of initial operation or no later than September 29, 2024, whichever is later
Submit performance test protocol to Control Officer (Section 104.9.1(a)(2))	At least 45, but no more than 90, days before anticipated test date
Submit performance test report to Control Officer (Section 104.9.1(a)(3))	60 days after completed test

RESOURCES

Forms and Worksheets:

- Calculation Worksheet – for calculating PME of VOC tons per calendar year to determine applicability (Section 104.2(a)-(b)).
- Registration Application (Section 104.8) – for all applicable sources required to comply with Section 104 as described in the Applicability section (Section 104.2(a)-(b)).
- Notification Form (Section 104.9.1(b)) – for claiming an exemption from certain provisions of Section 104 (see Section 104.4 for exemption list).

The final rule is available on the department website at:

https://www.clarkcountynv.gov/government/departments/environment_and_sustainability/division_of_air_quality/rules_regulations/current_aq_rules.php

Questions about these rules can be directed to the Department of Environment and Sustainability [Permitting Section](#) or the Small Business Assistance Program at: (702) 455-1660 or AQSBAP@ClarkCountyNV.gov.

REFERENCES

[Clean Air Act, Section 182\(b\)\(2\)\(A\), Title 42, U.S. Code Section 7511a \(42 U.S.C. 7511a\)](#)

[AQR Section 104, "VOC Emissions Control for Industrial Cleaning Solvent Operations"](#)

DISCLAIMER

This fact sheet is for general information and guidance purposes only. Do not rely solely on the information provided here as a basis for making business, legal, or any other decisions.