

# Update on Best Available Retrofit Control Technology (BARCT) Rule Evaluation

San Joaquin Valley Air Pollution Control District  
Public Workshop  
October 28, 2022

Attendees via Zoom

Please “raise your hand” for comments and questions

Comments via email

[webcast@valleyair.org](mailto:webcast@valleyair.org)

(Please include your name and affiliation)

# Decades of Stringent Air Quality Regulations

- District has long evaluated and implemented stringent control measures across all sources under its jurisdiction in efforts to attain federal standards
  - Adopted over 650 rules and rule amendments in order to control emissions from stationary sources and other local sources
  - District's New Source Review permitting regulation requires the use of the Best Available Control Technology (BACT)
- District stationary sources subject to BARCT since 1980s
- Robust and ongoing analysis necessary to demonstrate that District's rules continue to meet state and federal requirements, including BARCT
  - Increasingly stringent air quality standards
  - Control technologies continually evolving

# Update on AB 617 BARCT Review

- Best Available Retrofit Control Technology (BARCT) is an air emission limit for existing sources and is maximum degree of reduction achievable, taking into account environmental, energy and economic impacts
- AB 617 requires expedited BARCT review and implementation schedule for facilities in CARB's Cap-and-Trade Program
  - AB 617 expedited BARCT requirements applicable to equipment that has not implemented BARCT since 2007
  - 109 facilities in San Joaquin Valley subject to expedited BARCT review
  - District adopted schedule in December 2018, initially identified 16 rules subject to additional BARCT review
- Workshops held July 2020 and April 2021 provided update on rules evaluated in 2019 and 2020, respectively

# Status of BARCT Implementation Schedule

Rule	Title	Determination Status	Determination Schedule	Anticipated District Rule Adoption Date (if necessary)
4454	Refinery Process Unit Turnaround	Removed from Schedule - Rule Meets BARCT	2019	n/a
4641	Cutback, Slow Cure, And Emulsified Asphalt, Paving And Maintenance Operations	Removed from Schedule - Rule Meets BARCT	2019	n/a
4104	Reduction of Animal Matter	Removed from Schedule - Rule Meets BARCT	2019	n/a
4409	Components at Light Crude Oil Production Facilities, Natural Gas Production Facilities, and Natural Gas Processing Facilities	Rule Development in Progress	2019	Q1 2023
4455	Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants	Rule Development in Progress	2019	Q1 2023
4702	Internal Combustion Engines (VOC only)	Completed – BARCT Rule Adopted	2020	8/19/2021
4623	Storage of Organic Liquids	Rule Development in Progress	2020	Q1 2023

# Status of BARCT Implementation Schedule

Rule	Title	Determination Status	Determination Schedule	Anticipated District Rule Adoption Date (if necessary)
4694	Wine Fermentation and Storage Tanks	Removed from Schedule - Emission Units Exempt from Schedule under CH&SC § 40920.6(c)(3)	2020	n/a
4624	Transfer of Organic Liquid	Rule Development in Progress	2020	Q1 2023
4603	Surface Coating of Metal Parts and Products, Plastic Parts and Products, and Pleasure Crafts	Removed from Schedule - Rule Meets BARCT	2020	n/a
4601	Architectural Coatings	Completed - BARCT Rule Adopted	2020	4/16/2020
4401	Steam-Enhanced Crude Oil Production Wells	Rule Development in Progress	2021	Q1 2023
4566	Organic Material Composting Operations	Removed from Schedule - Emission Units Exempt from Schedule under CH&SC § 40920.6(c)(3)	2021	n/a
4625	Wastewater Separators	Removed from Schedule - Rule Meets BARCT	2022	n/a
4621	Gasoline Transfer Into Stationary Storage Containers, Delivery Vessels, and Bulk Plants	Removed from Schedule – Emission Units Exempt from Schedule under CH&SC 40920.6(c)(2)	2022	n/a
4402	Crude Oil Production Sumps	Rule Development Action scheduled for Q4 2022	2022	Q2 2023

# Update on AB 617 BARCT Review

- The following rule was determined to meet BARCT
  - Rule 4625 Wastewater Separators
- The following rule was determined to not be subject to the expedited BARCT evaluation schedule
  - Rule 4621 Gasoline Transfer Into Stationary Storage Containers, Delivery Vessels, and Bulk Plants
- The following rule will require a rule development process to satisfy BARCT
  - Rule 4402 Crude Oil Production Sumps

# District Rule 4625

- District Rule 4625 applies to the following source categories:
  - Post-custody transfer wastewater separators
  - Pre-custody transfer wastewater separators are subject to District Rule 4623
  - Leak detection and repair requirements for post-custody transfer wastewater separators at cap-and-trade facilities are addressed by District Rule 4455
  - Rule 4623 and 4455 are currently undergoing rule development to satisfy BARCT
- Benchmarks Evaluated
  - BAAQMD Regulation 8 Rule 8
  - SCAQMD Rule 1176
  - VCAPCD Rule 74.8
  - 40 CFR Part 60 Subpart QQQ
  - 40 CFR Part 53 Subpart VV
  - District Permit Requirements
- Conclusion
  - Analysis determined there are no federal, state, or other air district rules with more stringent VOC control requirements than Rule 4625
  - District Rule 4625 satisfies BARCT

# District Rule 4621

- District Rule 4621 applies to the following source categories
  - Gasoline transfer into stationary storage containers and bulk loading plants
- A detailed review determined that there are no permitted emissions units at cap-and-trade facilities that are subject to Rule 4621
  - Storage containers and loading racks at cap-and-trade facilities are subject to District Rule 4623 and 4624, respectively
  - Rule 4623 and 4624 are currently undergoing rule development to satisfy BARCT
- Requirements for Expedited BARCT Implementation Schedule
  - Section 40920.6(c)(2) states “... The schedule shall apply to each industrial source that, as of January 1, 2017, was subject to a market-based compliance mechanism adopted by the state board pursuant to subdivision (c) of Section 38562.”
- Since there are no emission units at cap-and-trade facilities subject to Rule 4621, the expedited BARCT implementation schedule does not apply per CH&SC 40920.6(c)(2)

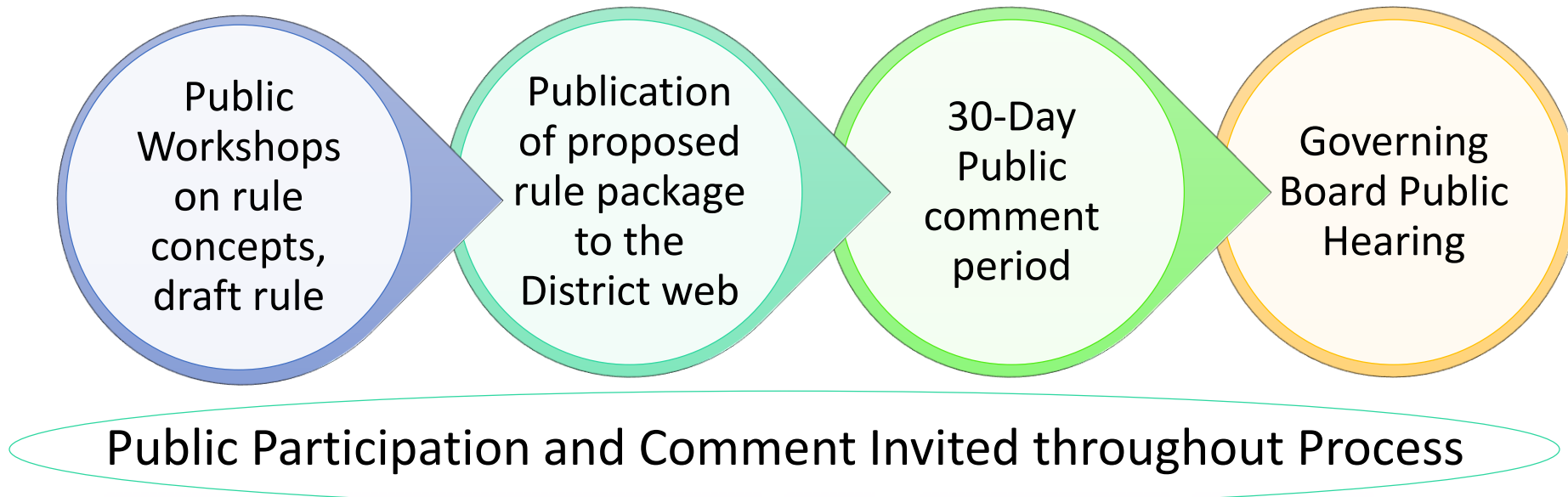


# District Rule 4402

- District Rule 4402 applies to the following source categories:
  - First, second, or third stage sumps at facilities producing crude oil
  - Produced water ponds used to evaporate/percolate produced water from oilfields
- Benchmarks Evaluated
  - SCAQMD Rule 1176
  - VCAPCD Rule 71.4
  - SLOCAPCD Rule 419
- Conclusion
  - The existing exemption threshold for clean produced water in SJVAPCD Rule 4402 is less stringent than in other air districts' rules. Therefore, the District will begin a rule making process in 2022 to explore opportunities to enhance the stringency of this rule and ensure the continued implementation of BARCT.

# District Rule Making Process (if required)

- District rules developed through transparent public process, with emphasis placed on providing opportunities for public engagement and feedback through workshops and comment periods
- Updates provided to Governing Board, Citizens Advisory Committee and Environmental Justice Advisory Group
- Evening workshops held, interpretation services available



# Public Comments

Attendees via Zoom

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for comments and questions

Comments via email

[webcast@valleyair.org](mailto:webcast@valleyair.org)

(Please include your name and affiliation)

More information available on District’s AB 617 website

<http://community.valleyair.org/>

Or call for more information: (559) 230-6000