



air pollution control district
SANTA BARBARA COUNTY

ASSEMBLY BILL 617: BARCT ANALYSIS - PARTICULATE MATTER CONTROL DEVICES

Board of Directors
Santa Barbara County
Air Pollution Control District

Our Mission: To protect the people and the environment
of Santa Barbara County from the effects of air pollution.

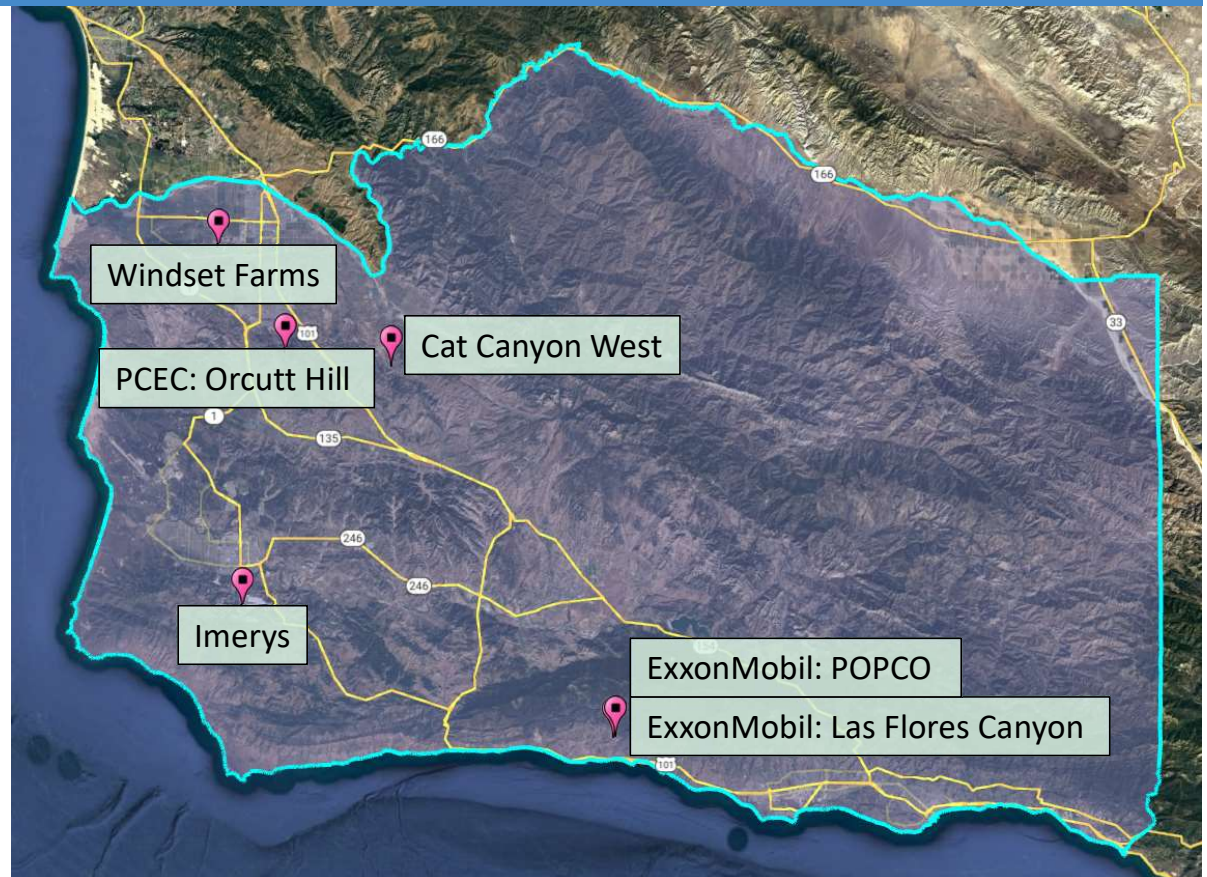
Aeron Arlin Genet
Director / APCO

Timothy Mitro, Air Quality Engineer
June 16, 2022



BACKGROUND: ASSEMBLY BILL (AB) 617

- Enacted in 2017 for Community Air Protection.
- BARCT applies to large industrial sources subject to Cap-and-Trade (>25,000 metric tons/yr of GHGs as of 1/1/2017).
- BARCT: The maximum degree of emission reductions, taking into account environmental and economic impacts.
- Rule Development Schedule adopted by Board in 2018.



BACKGROUND: BAGHOUSES

- Used in various industries such as concrete batch plants, asphalt plants, & metal grinding.
- Baghouses use filter media to capture PM emissions.
- Bag Leak Detection Systems (BLDS) can be used to monitor and detect bag leaks.



Exterior Housing & Ducting



Interior Bag Filters

BARCT ANALYSIS

- BARCT Analysis incorporates standards from South Coast AQMD Rule 1155.
- BARCT Analysis – PM Control Devices
 - 1) **Large Baghouses:** BARCT Emission Rate of 0.005 gr/dscf, Source Tests, and BLDS for continuous monitoring
 - 2) **Smaller Units:** Weekly Visible Emission Observations – EPA Method 22



BARCT IMPLEMENTATION & IMPACTS

- BARCT Analysis primarily affects Imerys, a diatomaceous earth mine south of Lompoc.
 - Requirements initially written into Draft Rule 363.
 - Authority to Construct (ATC) permit incorporates BARCT directly into Imerys' operating permit.
- Emission Impacts
 - Removal of antiquated baghouses.
 - Additional monitoring (BLDS + EPA Method 22) will lead to early detection and repair of equipment.
- Estimated Industry Costs
 - Capital Costs for Modernization Efforts: \$970,000
 - On-Going Costs for Monitoring: \$52,000 per year



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BARCT ANALYSIS TIMELINE



RECOMMENDATION

- Rule development proceeding for Particulate Matter Control Devices is no longer necessary.
- Emission reduction goals of AB 617 satisfied through the ATC permit process.



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CONTACT INFORMATION

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