Best Available Control Technology Guidelines

OVERVIEW

- Part A: Policy and Procedures for Major Polluting Facilities
- Part B: LAER/BACT Determinations for Major Polluting Facilities
- Part C: Policy and Procedures for Non-Major Polluting Facilities
- Part D: BACT Guidelines for Non-Major Polluting Facilities
- Part E: Policy and Procedures for Facilities Subject to Prevention of Significant Deterioration for Greenhouse Gases
- Part F: BACT Determinations for Facilities Subject to Prevention of Significant Deterioration for Greenhouse Gases

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Table of Contents

OVERVIEW	1
Chapter 1 - Introduction	2
Chapter 2 – Applicability Determination Major Polluting Facility Emission Thresholds Potential to Emit Limiting Potential to Emit	5 7
Chapter 3 - When is BACT Required? Pollutants Subject to NSR, PSD and BACT Permit Actions Subject to NSR, PSD and BACT Calculation Procedures for Emission Increases	8 10
Chapter 4 - What is BACT? NSR Rules (Regulation XIII) PSD Rules (Regulation XVII) Definition of BACT Requirements of Health & Safety Code Section 40440.11 Clean Fuel Guidelines	12 12 12 12
Chapter 5 - Review of Staff BACT Determinations Meeting with South Coast AQMD Managementt The BACT Review Committee The South Coast AQMD Hearing Board The South Coast AQMD Governing Board	15 15 15
PART A - POLICY AND PROCEDURES FOR MAJOR POLLUTING FACILITIES	
Chapter 1 - How is LAER Determined for Major Polluting Facilities? Criteria for Determining LAER for Major Polluting facilities LAER Application Cut-off Dates LAER Update Process Clean Fuel Guidelines Air quality-related energy policy	18 24 24 25
Chapter 2 - How to Use Part B of the BACT Guidelines General How to Determine LAER	27 29
PART B - LAER/BACT DETERMINATIONS FOR MAJOR POLLUTING FACILITIES	
Chapter 1 - How Is MSBACT Determined for Minor Polluting Facilities?	
PART D OF THE MSBACT GUIDELINES CRITERIA FOR NEW MSBACT AND UPDATING PART D COST EFFECTIVENESS METHODOLOGY CLEAN FUEL GUIDELINES	32 32 35
Air quality-related energy policy BACT UPDATE PROCESS	

Chapter 2 - How to Use Part D of the MSBACT Guidelines GENERAL	41 41
SPECIAL PERMITTING CONSIDERATIONS BACT APPLICATION CUT-OFF DATES	42
PART D - BACT GUIDELINES FOR NON-MAJOR POLLUTING FACILITIES	47
PART E - POLICY AND PROCEDURES FOR FACILITIES SUBJECT TO PREVENTION OF SIGNIFICA	4 <i>NT</i>
DETERIORATION FOR GREENHOUSE GASES	48
Background	49
Permitting Guidance for GHG	49
Federal PSD Applicability for GHG	50
SOUTH COAST AQMD PSD Applicability for GHG	
Top-Down BACT Process	51
GHG Control Measures White Papers	54
PART F – BACT DETERMINATIONS FOR FACILITIES SUBJECT TO PREVENTION OF SIGNIFICAN DETERIORATION FOR GREENHOUSE GASES	VT
LIST OF ABBREVIATIONS	56
INDEX OF EQUIPMENT CATEGORIES	57

LIST OF ABBREVIATIONS

AIP APCD AQMP BACT BRC CAA CAPCOA CAPCOA CARB CEP CFC CFR CO DEO H&SC LAER LPG MDAB MSBACT	Achieved in Practice Air Pollution Control District Air Quality Management Plan Best available control technology BACT Review Committee, AQMD Clean Air Act California Air Pollution Control Officers Association California Air Resources Board Certified Equipment Permit Chlorofluorocarbons Code of Federal Regulations Carbon monoxide Deputy Executive Officer Health and Safety Code, California State Lowest achievable emission rate Liquefied petroleum gas Mojave Desert Air Basin Minor Source BACT
NO2	Nitrogen dioxide
NOX	Oxides of nitrogen
NSR	New Source Review
ODC	Ozone depleting compounds
PM10	Particulate matter less than 10 microns in diameter
RACT	Reasonably available control technology
RECLAIM	Regional Clean Air Incentives Market
ROG	Reactive organic gas
<u>South Coast SCAQMD</u>	South Coast Air Quality Management District
SIP	State Implementation Plan
SOCAB	South Coast Air Basin
SOX	Oxides of sulfur
SRC	Scientific Review Committee
SSAB	Salton Sea Air Basin
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

INDEX OF EQUIPMENT CATEGORIES

A

Abrasive Blasting **Absorption Chiller** Air Start Unit Air Stripper - Ground Water Treatment Aluminum Melting Furnace - Crucible or Pot (All Charge) Aluminum Melting Furnace - Crucible or Pot, Ingot and/or Clean Scrap Charge Only Aluminum Melting Furnace - Reverberatory, Non-Sweating, Ingot or Contaminated Scrap Charge Aluminum Melting Furnace - Reverberatory, Non-Sweating, Ingot or non-Contaminated Scrap Charge Aluminum Melting Furnace - Reverberatory, Sweating, Ingot or Contaminated Scrap Charge Aluminum Melting Furnace - Rotary, Sweating, Ingot or Contaminated Scrap Charge Ammonium Bisulfate and Thiosulfate Production Animal Feed Manufacturing - Dry Material Handling (see Bulk Solid Material Handling) Asbestos Machining Equipment Asphalt Batch Plant Asphalt Roofing Line Asphalt Storage Tank (see Storage Tank – Liquid) Asphalt Day Tanker Autobody Shredder

B

Ball Mill Beryllium Machining Equipment Blender (see Mixer) Boiler Boiler - Refinery Gas Fired Boiler, CO - Refinery Boiler - Agricultural Waste (Biomass) Fired Boiler - Landfill or Digester Gas fired Boiler - Landfill or Digester Gas fired Boiler - Municipal Solid Waste (MSW) Fired Boiler - Wood Fired Brake Pad Grinder Brakeshoe Debonder Brass Melting Furnace - Crucible Brass Melting Furnace - Cupola Brass Melting Furnace - Reverberatory, Non-Sweating Brass Melting Furnace - Reverberatory, Sweating Brass Melting Furnace - Rotary, Non-Sweating Brass Melting Furnace - Rotary, Sweating Brass Melting Furnace - Tilting Induction Bulk Cement - Ship Unloading Bulk Solid Material Handling Bulk Solid Material - Ship Loading - Non-White Commodities Bulk Solid Material - Ship Loading - White Commodities Bulk Solid Material Ship Unloading - Except Cement Bulk Solid Material Storage - Non-White Commodities Bulk Solid Material Storage - White Commodities

C

Calcined Petroleum Coke Handling Calcined Petroleum Coke Truck Loading and Unloading Calciner Calciner - Petroleum Coke **Calciner - Portland Cement** Carpet Beating and Shearing Carpet Oven (see Dryer or Oven) Catalyst Manufacturing - Reactor Catalyst Manufacturing - Rotary Dryer Catalyst Manufacturing - Spray Dryer Catalyst Regeneration - Fluidized Catalyst Cracking Unit Catalyst Regeneration - Hydrocarbon Removal Catalyst Regeneration and Manufacturing Calcining Cement Handling (see Bulk Cement – Ship Unloading) Charbroiler, Chain-driven (Conveyorized) Chemical Milling Tank - Aluminum and Magnesium Chemical Milling Tank - Nickel Alloys, Stainless Steel and Titanium Chip Drver **Chrome Plating - Decorative Chrome** Chrome Plating - Hard Chrome Circuit Board Etcher - Batch Immersion Type, Subtractive Process Circuit Board Etcher - Conveyorized Spray Type, Subtractive Process **Circuit Board Photoresist Developer** Clay, Ceramic, and Refractories Handling (Except Mixing) (see Bulk Solid Material Handling) **Cleaning Compound Blender** CO2 Plant Coal, Coke and Sulfur Handling and Storage (see Bulk Solid Material Handling and Bulk Solid Material Storage) Coffee Roasting Coffee Roasting – Handling Equipment Commodities Handling and Storage (see Bulk Solid Material Handling and Bulk Solid Material Storage) Composting Compressors (see Fugitive Emission Sources) Connectors - Gas/Vapor and Light Liquid (see Fugitive Emission Sources) Concrete Batch Plant - Central Mixed

Concrete Batch Plant - Transit-Mixed Concrete Blocks and Forms Manufacturing Cotton Gin Crematory

D

Degreaser - Batch-Loaded or Conveyorized Cold Cleaners Degreaser - Conveyorized Vapor, Volatile Organic Compounds Degreaser - Vapor Cleaning, Volatile Organic Compounds Degreaser - Other Detergent Manufacturing - Solids Handling Detergent Manufacturing - Spray Dryer Diaphragm (see Fugitive Emission Sources) Diesel Engine (see I.C. Engine – Compression Ignition) **Drum Reclamation Furnace** Dry Cleaning - Perchloroethylene Dry Cleaning - Petroleum Solvent Dry Material Handling (see Bulk Solid Material Handling) Dryer - Kiln Dryer - Rotary, Spray and Flash Drver – Tenter Frame, Fabric Dryer - Tray, Agitated Pan, and Rotary Vacuum Dryer or Oven - Direct and Indirect Fired

E

Electric Furnace - Pyrolizing, Carbonizing and Graphitizing Electrical Wire Reclamation - Insulation Burnoff Furnace Ethylene Oxide Sterilization - Quarantine Storage Ethylene Oxide Sterilization/Aeration Expanded Polystyrene Manufacturing, Using Blowing Agent (see Polymeric Cellular [Foam] Product Manufacturing)

Extrusion (see Plastic or Resin Extrusion)

F

Fatty Acid - Fat Hydrolyzing and Fractionation Fatty Alcohol Feed and Grain Handling (see Bulk Solid Material Handling) Fermentation - Beer and Wine Fertilizer Handling (see Bulk Solid Material Handling) Fiber Impregnation Fiberglass Fabrication (see Polyester Resin Operations) Film Cleaning Machine (see Degreaser) Fish Cooker - Edible Fish Reduction - Cooker Fish Reduction - Digester, Evaporator and Acidulation Tank Fish Reduction - Dryer Fish Reduction - Meal Handling Fish Rendering - Presses, Centrifuges, Separators, Tank, etc. Fittings (see Fugitive Emission Sources) Flare - Digester Gas or Landfill Gas from Non-Hazardous Waste Landfill Flare - Landfill Gas from Hazardous Waste Landfill Flare - Refinery, Non-Emergency Flexographic Printing (see Printing) Flow Coater, Dip Tank and Roller Coater Fluidized Catalytic Cracking Unit Foundry Sand Mold - Cold Cure Process Fryer - Deep Fat Fugitive Emission Sources at Natural Gas Plants and Oil and Gas Production Fields Fugitive Emission Sources at Organic Liquid Bulk Loading Facilities Fugitive Emission Sources, Other facilities Fugitive Emission Sources, Other facilities Fuming Sulfuric Acid Storage Tank (see Storage Tank – Fuming Sulfuric Acid)

G

Galvanizing Furnace - Batch Operations Galvanizing Furnace - Continuous Sheet Metal Operations Galvanizing Furnace - Continuous Wire Operations Garnetting Equipment Gas Turbine – Combined Cycle/Cogeneration Gas Turbine - Emergency Gas Turbine - Landfill or Digester Gas Fired Gas Turbine – Simple Cycle Glass Melting Furnace - Container Manufacturing Glass Melting Furnace - Decorator Glass Glass Melting Furnace - Flat Glass Graphic Arts (see Printing) Greenhouse Gas Green Petroleum Coke Handling (see Bulk Solid Material Handling) Green Petroleum Coke Truck Loading or Unloading (see Bulk Solid Material Handling)

H

Hatches (see Fugitive Emission Sources) Hazardous Waste Incineration (see Incinerator – Hazardous Waste) Heater (see Process Heater)

- I.C. Engine Emergency, Compression Ignition
- I.C. Engine Emergency, Spark Ignition
- I.C. Engine Fire Pump
- I.C. Engine Portable, Compression Ignition
- I.C. Engine Portable, Spark Ignition
- I.C. Engine Stationary, Non-Emergency
- I.C. Engine Landfill or Digester Gas Fired
- Incinerator Hazardous Waste
- Incinerator Infectious Waste
- Incinerator Non-Infectious, Non-Hazardous Waste

Ink Jet Printing

- Iron Melting Furnace Cupola
- Iron Melting Furnace Induction
- Iron Melting Furnace Reverberatory

J

Jet Engine Test Facility - Experimental Jet Engine, High Altitude Testing Jet Engine Test Facility - Experimental Jet Engine, Sea Level (Low Altitude) Testing Jet Engine Test Facility - Jet engine Performance Testing

Laminator with Corona Transfer Landfill Gas Gathering System Latex Manufacturing - Reaction Lead Melting Furnace - Cupola, Secondary Melting Operations Lead Melting Furnace - Pot or Crucible, Non-RefiningOperations Lead Melting Furnace - Pot or Crucible, Refining Operations Lead Melting Furnace - Reverberatory, Secondary Melting Operations Lead Oxide Manufacturing - Reaction Pot Barton Process Letterpress Printing (see Printing) Liquid Transfer and Handling - Container Filling Liquid Transfer and Handling - Marine, Loading Liquid Transfer and Handling - Marine, Unloading Liquid Transfer and Handling - Tank Truck and Rail Car Bulk Loading, Class A (SCAQMD's Rule 462) Liquid Transfer and Handling - Tank Truck and Rail Car Bulk Loading, Class B(SCAQMD's Rule 462) Liquid Transfer and Handling - Tank Truck and Rail Car Bulk Loading, Class C (SCAQMD's Rule 462) Lithographic Printing Heatset (see Printing) Lithographic Printing - Non-Heatset (see Printing)

Μ

Meat Broiler and Barbecue Oven Metal Forging Furnace Metal Heating Furnace Metallizing Spray Gun Meters (see Fugitive Emission Sources) Mixer or Blender - Wet Mixer, Blender, or Mill - Dry

Ν

Natural Fertilizer Handling (see Bulk Solid Material Handling) Natural Gas Plants (see Fugitive Emission Sources) Nitric Acid Manufacturing Non-Metallic Mineral Processing - Except Rock and Aggregate Nut Roasting - Handling Equipment Nut Roasting

0

Offset Printing (see Lithographic Printing) Oil and Gas Production - Combined Tankage Oil and Gas Production - Wellhead Oil and Gas Production Fields (see Fugitive Emission Sources) Oil/Water Separator (see Wastewater System) Open Spraying - Spray Gun Open-ended Valves or Lines (see Fugitive Emission Sources) Organic Liquid Bulk Loading Facilities (see Fugitive Emission Sources) Oven (see Dryer or Oven)

P

Paper and Fiber Handling (see Bulk Solid Material Handling) Perlite Manufacturing System Petroleum Coke Calciner (see Calciner – Petroleum Coke) Pharmaceutical Manufacturing Pharmaceutical - Operations Involving Solvents Phosphoric Acid - Thermal Process Phthalic Anhydride Pipe – Open Ended (see Fugitive Emission Sources) Plasma Arc Metal Cutting Torch, Electrical Input Rating Plastic or Resin Extrusion Pneumatic Conveying - Except Paper and Fibers (see Bulk Solid Material Handling) Polyester Resin Operations - Molding and Casting Polyester Resin Operations – Fiberglass Fabrication, Hand and Spray Layup Polyester Resin Operations – Fiberglass Fabrication, Panel Manufacturing Polyester Resin Operations – Fiberglass Fabrication, Pultrusion Polyethylene Manufacturing (see Resin Manufacturing) Polymeric Cellular (Foam) Product Manufacturing Polypropylene Manufacturing (see Resin Manufacturing) Polystyrene Extrusion (see Plastic or Resin Extrusion) Polystyrene Foam Product Manufacturing (see Polymeric Cellular [Foam] Product Manufacturing) Polystyrene Foam Product Manufacturing, Using Blowing Agent (see Polymeric Cellular [Foam] Product Manufacturing) Polystyrene Manufacturing (see Resin Manufacturing) Polyurethane Tube Manufacturing Powder Coating Booth Precious Metal Reclamation - Incineration Precious Metals Recovery - Chemical Recovery and Chemical Reactions Pressure Relief Valve (see Fugitive Emission Sources) Printing (Graphic Arts) – Flexographic Printing (Graphic Arts) – Letterpress Printing (Graphic Arts) – Lithographic, Heatset Printing (Graphic Arts) – Lithographic, Non-Heatset Printing (Graphic Arts) – Rotogravure or Gravure – Publication and Packaging Printing (Graphic Arts) - Screen Printing and Drying Process Drains (see Wastewater System) Process Heater – Non-Refinery Process Heater - Refinery Process Valves (see Fugitive Emission Sources) Pultrusion (see Polyester Resin Operations) Pumps (see Fugitive Emission Sources)

Feb. 5, 2021

R

Railcar Dumper (see Bulk Solid Material Handling) Railcar Loading/Unloading, Liquid (see Liquid Transfer and Handling) Reactor with Atmospheric Vent Rendering - Crax Pressing, filtering and Centrifuging Operations Rendering - Evaporators, Cookers and Dryers Rendering - Grease and Blood Processing Rendering - Metal Grinding and Handling System Rendering - Tanks and Miscellaneous Equipment Resin Manufacturing Rock - Aggregate Processing Rocket Engine Test Cell Rolling Mill Rotogravure Printing - Publication and Packaging (see Printing) Rubber Compounding - Banbury Type Mixer Rubber Compounding – Roll Mill

S

Sampling Connections (see Fugitive Emission Sources) Sand Handling System with Shakeout and/or Muller in System Screen Printing and Drying (see Printing) Sewage Treatment Plants Sight Glass (see Fugitive Emission Sources) Silo (see Bulk Solid Material Storage) Smokehouse Solder Leveling - Hot Oil or Hot Air Solid Material Handling –(see Bulk Solid Material Handling) Solid Material Storage –(see Bulk Solid Material Storage) Solid Material Unloading - Railcar Dumper (see Bulk Solid Material Handling) Solids Handling Catalyst (see Catalyst Manufacturing and Regeneration) Solids Handling Pharmaceutical (see Pharmaceutical Manufacturing) Solvent Reclamation Sprav Booth Steam Generator - Oil field Steel Melting Furnace - Basic Oxygen Process Steel Melting Furnace - Electric Arc **Steel Melting Furnace - Induction** Steel Melting Furnace - Open Hearth Storage Tank (see also Bulk Solid Material Storage) Storage Tank - External Floating Roof, and VP <= 11 psia Storage Tank - Fixed Roof Storage Tank - Fuming Sulfuric Acid Storage Tank - Grease or Tallow Storage Tank - Internal Floating Roof Storage Tank – Liquid Storage Tank - Spent Sulfuric Acid Storage Tank - Underground Sulfur Handling and Storage (see Bulk Solid Material Handling and Bulk Solid Material Storage) Sulfur Pelletizing and Prilling Sulfur Recovery Plant

Sulfuric Acid Storage (see Storage Tank – Liquid) Surfactant Manufacturing

T

Tank Degassing Tank - Grease or Tallow Processing Tank Truck Loading/Unloading (see Liquid Transfer and Handling) Tire Buffer Tunnel Washer

V

Vegetable Oil Purification Vinegar Manufacturing

W

Wastewater System Wastewater System – Air Stripper Wastewater System – Oil/Water Separator Wastewater System - Sour Water Stripping Wax Burnoff Furnace Wet Material Handling (see Bulk Solid Material Handling) Wood Processing Equipment Woodworking

Z

Zinc Melting Furnace - Crucible or Pot Zinc Melting Furnace - Reverberatory, Non-Sweating Operations Zinc Melting Furnace - Reverberatory, Sweating Operations Zinc Melting Furnace - Rotary, Sweating Operations

OVERVIEW

Chapter 1 - Introduction

The South Coast Air Quality Management District (South Coast AQMD) Regulation XIII – New Source Review (NSR) and Regulation XX – RECLAIM, require applicants to use Best Available Control Technology (BACT) for new sources, relocated sources, and modifications to existing sources that may result in an emission increase of any nonattainment air contaminant, any ozone depleting compound (ODC), or ammonia. Regulation XIII requires the Executive Officer to periodically publish BACT Guidelines that establish the procedures and the BACT requirements for commonly permitted equipment. SCAQMDSouth Coast AQMD Regulation XIV - Toxics and Other Non-Criteria Pollutants, requires applicants to use Best Available Control Technology for Toxics (T-BACT) for new, relocated or modified permit units that result in a cumulative increase in Maximum Individual Cancer Risk (MICR) of greater than one in a million (1.0 x 10⁻⁶) at any receptor location. Additionally, Regulation XVII – Prevention of Significant Deterioration (PSD) also sets forth BACT requirements for new sources, relocated sources and modifications to existing sources that emit attainment air contaminants. PSD BACT is incorporated into these BACT Guidelines. As of the publication date of these guidelines, there is currently no requirement for SCAQMDSouth Coast AQMD to publish T-BACT guidelines and T-BACT must be established during the permitting process.

Historically, the BACT Guidelines were first published in May 1983, and later revised in October 1988. The Guidelines consisted of two parts: Part A – Policy and Procedures, and Part B – BACT Determinations. Part A provided an overview and general guidance while Part B contained specific BACT information by source category and pollutant. Since the October 1988 revision, Part A was amended once in 1995, and Part B was updated with six LAER determinations between 1997 and 1998.

On December 11, 1998, the Governing Board approved a new format for listing BACT determinations in Part B of the Guidelines. While the previous Part B of the BACT Guidelines specified BACT requirements and set out source category determinations which could be interpreted as definitive, the new format simply provides listings of recent BACT determinations by SCAQMDSouth Coast AQMD permitting staff and others as well as information on new and emerging technologies. Part B of the SCAQMDSouth Coast AQMD BACT Guidelines now follows the same outline as the permit listings in the California Air Resources Board State BACT Clearinghouse Database, which is managed under the direction of the California Air Pollution Control Officers Association's (CAPCOA) Engineering Managers Committee. In addition, BACT determinations made by SCAQMDSouth Coast AQMD are submitted to the U.S. Environmental Protection Agency (USEPA) RACT/BACT/LAER Clearinghouse by ARB staff. Further information on the format of the Guidelines, including reasons for the change in direction, may be found in Board Letters presented at the October 1998 Board Meeting, Agenda No. 41, and the December 1998 Board Meeting, Agenda No. 28.

The public participation process includes technical review and comments by a focused BACT Scientific Review Committee (BACT SRC) at periodic intervals, prior to the updates of the <u>SCAQMDSouth Coast AQMD</u> BACT Guidelines. The Board established a 30-day notice period for the BACT SRC and interested persons to review

and comment on <u>SCAQMDSouth Coast AQMD</u> BACT determinations that result in BACT requirements that are more stringent than previously imposed BACT.

As a result of amendments to <u>SCAQMDSouth Coast AQMD</u>'s NSR regulations in September 2000, the BACT Guidelines were separated into two sections: one for major polluting facilities and another for non-major (minor) polluting facilities. (See Chapter 2 in the Overview for how to determine if a facility is major or minor).

The BACT Guidelines for major polluting facilities include:

- Part A: Policy and Procedures for Major Polluting facilities; and
- Part B: LAER/BACT Determinations for Major Polluting Facilities.

The BACT Guidelines for non-major polluting facilities include:

- Part C: Policy and Procedures for Non-Major Polluting Facilities; and
- Part D: BACT Guidelines for Non-Major Polluting Facilities.

Both the format of the guidelines and the process for determining BACT are significantly different between major and non-major polluting facilities. Major polluting facilities that are subject to NSR are required by the Clean Air Act to have the Lowest Achievable Emission Rate (LAER). LAER is determined at the time the permit is issued, with little regard for cost, and pursuant to USEPA's LAER policy as to what is achieved in practice. The Part B BACT and LAER determinations for major polluting facilities are only examples of past determinations that help in determining LAER for new permit applications.

For non-major polluting facilities, BACT will be determined in accordance with state law at the time an application is deemed complete unless a more stringent rule requirement becomes applicable prior to permit issuance. For the most part, it will be as specified in Part D of the BACT Guidelines. Changes to Part D for minor source BACT (MSBACT) to make them more stringent will be subject to public review and <u>SCAQMDSouth Coast AQMD</u> Board approval, for consideration of cost.

For the 2016 amendment to the Guidelines, additional parts have been added to address PSD requirements for greenhouse gas (GHG) emissions established by U.S. EPA in 40 CFR 52.21 in 2011. The requirements are incorporated by reference in <u>SCAQMDSouth Coast AQMD</u> Rule 1714. The BACT Guidelines for GHG requirements include:

- Part E: Policy and Procedures for Facilities Subject to Prevention of Significant Deterioration for Greenhouse Gases; and
- Part F: BACT Determinations for Facilities Subject to Prevention of Significant Deterioration for Greenhouse Gases.

In order to distinguish between BACT for various sources, this document will use the following nomenclature for BACT:

LAER for BACT at major polluting facilities

MSBACT for BACT at non-major polluting facilities

PSD BACT for BACT at facilities subject to BACT requirements for criteria pollutants

Written comments about the BACT Guidelines are welcome at any time and will be evaluated by <u>SCAQMDSouth Coast AQMD</u> staff and included in the BACT Docket at the <u>SCAQMDSouth Coast AQMD</u> library. These comments should be addressed to:

South Coast Air Quality Management District BACT Docket Science and Technology Advancement 21865 Copley Dr. Diamond Bar, CA 91765-0934

Comments may also be submitted via email to BACTTeam@aqmd.gov, and should include BACT Docket in the subject line.

The BACT Guidelines are available without charge from <u>SCAQMDSouth Coast</u> <u>AQMD</u>'s web site at www.aqmd.gov/home/permits/bact. A hardcopy of the BACT Guidelines may be obtained for a fee by submitting a request to Subscription Services at www.aqmd.gov/contact/subscription-services or by calling (909) 396-3720. Revisions to the Guidelines will be mailed to all persons that have purchased annual updates to the BACT Guidelines.

Chapter 2 – Applicability Determination

This chapter explains how to determine whether a facility is a major or minor polluting facility, and how a facility can become a minor polluting facility.

MAJOR POLLUTING FACILITY EMISSION THRESHOLDS

A facility is a major polluting facility (or a major stationary source as it is called in the federal Clean Air Act [CAA]) if it emits, or has the potential to emit (PTE), a criteria air pollutant at a level that equals or exceeds emission thresholds specified in the CAA¹ based on the attainment or nonattainment status. Table 1 presents those emission thresholds for each criteria air pollutant for each air basin in <u>SCAQMDSouth Coast</u> <u>AQMD</u>. The map in Figure 1 shows the location of the three air basins in <u>SCAQMDSouth Coast AQMD</u>. If a threshold for any one criteria pollutant is equaled or exceeded, the facility is a major polluting facility, and will be subject to LAER for all pollutants subject to NSR. Table 1 does not include emission thresholds that trigger GHG BACT for <u>SCAQMDSouth Coast AQMD</u> Rule 1714 and 40 CFR 52.21. Part E of the BACT Guidelines should be referenced for a detailed explanation of how GHG BACT emission thresholds are determined.

A facility includes all sources located within contiguous properties owned or operated by the same person, or persons under common control. Contiguous means in actual contact or separated only by a public roadway or other public right-of-way. However, on-shore crude oil and gas production facilities under the same ownership or use entitlement must be included with offshore crude oil and gas production facilities located in Southern California Coastal or Outer Continental Shelf waters.

The following mobile source emissions are also considered as part of the facility²:

- 1. Emissions from in-plant vehicles; and
- 2. All emissions from ships during the loading or unloading of cargo and while at berth where the cargo is loaded or unloaded; and
- 3. Non-propulsion ship emissions within Coastal Waters under <u>SCAQMDSouth</u> <u>Coast AQMD</u> jurisdiction.

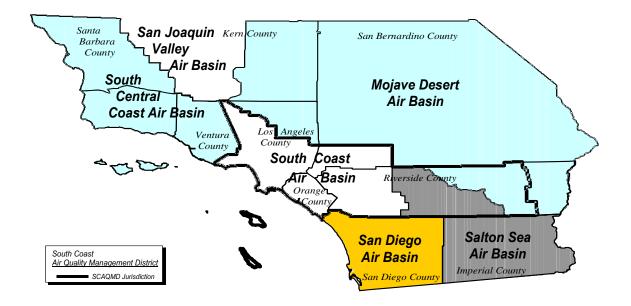
¹ The major source emission thresholds are higher for air basins that comply with the national ambient air quality standard and lower depending on how far an air basin is from compliance with the standard for a pollutant. The lowest thresholds apply to extreme non-attainment air basins, the only ones which are the South Coast Air Basin and San Joaquin Valley Air Basin for ozone (VOC and NOx).

² In accordance with Rule 1306(g).

Pollutant	South Coast Air Basin	Riverside County Portion of Salton Sea Air Basin	Riverside County Portion of Mojave Desert Air Basin
VOC	10	25	100
NOx	10	25	100
SOx ³	70	70	100
CO	50	100	100
PM ₁₀	70	70	100
PM _{2.5}	70		

Table 1Actual or Potential Emission Threshold Levels (Tons per Year)for Major Polluting Facilities

Figure 1: Map of SCAQMDSouth Coast AQMD



³ The threshold for SOx, as a precursor for PM, is 70 tons per year for serious PM₁₀ areas, which the SCAB previously was, and 70 tons per year for serious PM_{2.5} areas, which the SCAB currently is. Rule 1302 previously specified 100 tons per year, which was in error, and was changed at the November 2016 Board Meeting.

POTENTIAL TO EMIT

Potential to emit is based on permit conditions that limit emissions or throughput. If there are no such permit conditions, PTE is based on:

- the maximum rated capacity; and
- the maximum daily hours of operation; and
- physical characteristics of the materials processed.

The PTE must include fugitive emissions associated with the source. RECLAIM emission allocations are not considered emission limits because RECLAIM facilities may purchase RTCs and increase their emissions without modifying their permit. For PSD purposes, as well as Rule 1325 for $PM_{2.5}$, which incorporates federal requirements, fugitive emissions are included only for major source categories specifically identified in 40 CFR 52.21.

LIMITING POTENTIAL TO EMIT

A facility's PTE can be capped by an enforceable permit condition that limits emissions. This condition will likely involve monitoring, recordkeeping and reporting to ensure that emissions remain below the permit limit.

Chapter 3 - When is BACT Required?

This chapter explains when BACT is required by identifying the air pollutants subject to BACT, the permit actions that trigger BACT review, and the calculation procedures to determine emission increases.

POLLUTANTS SUBJECT TO NSR, PSD AND BACT

The <u>SCAQMDSouth Coast AQMD</u>'s New Source Review (NSR) programs include *Regulation XIII* - *New Source Review* and *Rule 2005* - *New Source Review for RECLAIM*. Rule 2005 applies only to NOx and SOx emissions from RECLAIM facilities, while Regulation XIII applies to other non-attainment air pollutants from RECLAIM facilities, all non-attainment air pollutants from all other facilities, and ammonia and ozone-depleting compound (ODC) emissions from all facilities. ODCs are defined as Class I substances listed in 40 CFR, Part 82, Appendix A, Subpart A, and are listed in Table 2. Rule 1325 specifically applies to PM_{2.5}.

Although the <u>SCAQMDSouth Coast AQMD</u> is in attainment with the ambient air quality standards for SO₂ and NO₂, NOx is a precursor to ozone, and both SOx and NOx are precursors to PM₁₀ and PM_{2.5}, which are non-attainment air pollutants. Therefore, SOx and NOx are treated as non-attainment air pollutants as well. The net result is that VOC, NOx, SOx, PM₁₀ and PM_{2.5} are subject to NSR in all of <u>SCAQMDSouth Coast AQMD</u>.

The South Coast Air Basin has historically been designated nonattainment for CO. However, there has been considerable improvement in CO air quality in the Basin from 1976 to 2005. In 2001, the Basin met both the federal and state 8-hour CO standards for the first time at all monitoring stations. The 2003 AQMP revision to the CO plan served a dual purpose; it replaced the 1997 attainment demonstration that lapsed at the end of 2000, and it provided the basis for a CO maintenance plan in the future. The Basin was designated as attainment for CO in 2007. Therefore, CO is in attainment with state and federal ambient air quality standards.

The <u>SCAQMDSouth Coast AQMD</u>'s Regulation XVII – Prevention of Significant Deterioration sets forth BACT requirements for stationary sources that emit attainment air contaminants. The BACT requirement applies to any net emission increase of a criteria pollutant from a permit unit at any source. As explained in the <u>SCAQMDSouth</u> <u>Coast AQMD</u> Staff Report for Regulation XVII dated September 28, 1988 for the October 7, 1988 Board meeting, the PSD BACT requirement is applicable to all permit units regardless if the source is classified as a minor or major facility.

Lead (Pb) is a criteria air pollutant and is subject to BACT in areas of non-attainment, or is subject to PSD in areas of attainment. Pb can be a component of a source's PM_{10} emissions and is therefore subject to BACT for PM_{10} . BACT for Pb will be BACT for PM_{10} or compliance with Rules 1420, 1420.1 or 1420.2, whichever is more stringent.

The applicability of the various pollutants to NSR in the various air basins is summarized in Table 3. See Figure 1 in the previous chapter for a map of <u>SCAQMDSouth Coast AQMD</u> that shows the location of the three air basins in <u>SCAQMDSouth Coast AQMD</u>.

Table 2				
Class I Substances (ODCs)*				

A. Group I:	G. Group VII:
CFCl ₃ Trichlorofluoromethane (CFC-11)	CHFBr ₂
CF ₂ Cl ₂ dDichlorodifluoromethane (CFC-12)	CHF ₂ Br (HBFC-2201)
$C_2F_3Cl_3$ Trichlorotrifluoroethane (CFC-113)	CH ₂ FBr
$C_2F_4Cl_2$ Dichlorotetrafluoroethane (CFC-114)	C ₂ HFBr ₄
C_2F_5Cl Monochloropentafluoroethane (CFC-115)	$C_2HF_2Br_3$
All isomers of the above chemicals	$C_2HF_3Br_2$
	C_2HF_4Br
B. Group II:	$C_2H_2FBr_3$
CF ₂ ClBr_Bromochlorodifluoromethane (Halon-1211)	$C_2H_2F_2Br_2$
$CF_{3}Br_{1}$ Bromotrifluoromethane (Halon-1301)	$C_2H_2F_3Br$
$C_2F_4Br_2$ Dibromotetrafluoroethane (Halon-2402)	-
All isomers of the above chemicals	$C_2H_2FBr_2$
All isomers of the above chemicals	$C_2H_3F_2Br$
	C ₂ H ₄ FBr
C. Group III:	C ₃ HFBr ₆
CF ₃ Cl_ Chlorotrifluoromethane (CFC-13)	C ₃ HF ₂ Br ₅
C ₂ FCl ₅ <u>Pentachlorofluoroethane</u> (CFC-111)	C ₃ HF ₃ Br ₄
C ₂ F ₂ Cl ₄ <u>Tetrachlorodifluoroethane</u> (CFC-112)	$C_3HF_4Br_3$
C ₃ FCl ₇ <u>Heptachlorofluoropropane</u> (CFC-211)	$C_3HF_5Br_2$
C ₃ F ₂ Cl ₆ <u>Hexachlorodifluoropropane</u> (CFC-212)	C₃HF ₆ Br
C ₃ F ₃ Cl ₅ <u>Pentachlorotrifluoropropane</u> (CFC-213)	$C_3H_2FBr_5$
C ₃ F ₄ Cl ₄ <u>Tetrachlorotetrafluoropropane</u> (CFC-214)	$C_3H_2F_2Br_4$
C ₃ F ₅ Cl ₃ <u>Trichloropentafluoropropane</u> (CFC-215)	$C_3H_2F_3Br_3$
C ₃ F ₆ Cl ₂ <u>Dichlorohexafluoropropane</u> (CFC-216)	$C_3H_2F_4Br_2$
C ₃ F ₇ Cl_Chloroheptafluoropropane (CFC-217)	C₃H₂F₅Br
All isomers of the above chemicals	C ₃ H ₃ FBr ₄
	$C_3H_3F_2Br_3$
D. Group IV:	$C_3H_3F_3Br_2$
CCl ₄ Carbon Tetrachloride	C ₃ H ₃ F ₄ Br
	C ₃ H ₄ FBr ₃
E. Group V:	$C_3H_4F_2Br_2$
$C_2H_3Cl_3$ 1,1,1 Trichloroethane (Methyl chloroform)	C ₃ H ₄ F ₃ Br
All isomers of the above chemical except 1,1,2-	$C_3H_5FBr_2$
trichloroethane	$C_3H_5F_2Br$
	C ₃ H ₆ FBr
F. Group VI:	
CH ₃ Br_ Bromomethane (Methyl Bromide)	
H. Group VIII:	
CH ₂ BrCl (Chlorobromomethane)	

* 40 CFR, Part 82, Appendix A, Subpart A

Applicability of NSR to Various Pollutants in South Coast Air Basin (SOCAB), Salton Sea Air Basin (SSAB), and Mojave Desert Air Basin (MDAB)									
<u>Air Basin</u>	VOC	<u>NOx</u>	<u>SOx</u>	<u>CO</u>	<u>PM₁₀</u>	<u>PM_{2.5}</u>	<u>NH</u> ₃	<u>Pb</u>	<u>ODC</u>
SOCAB	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
SSAB	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark	\checkmark	
MDAB	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark	\checkmark	\checkmark

Table 3

PERMIT ACTIONS SUBJECT TO NSR, PSD AND BACT

SCAQMDSouth Coast AQMD's NSR and PSD regulations are preconstruction permit review programs that require the Executive Officer to deny a permit to construct unless the proposed equipment includes BACT when:

- new equipment is installed;
- existing stationary permitted equipment is relocated; or
- existing permitted equipment is modified such that there is an emission • increase.

If the new equipment is to replace the same kind of equipment, NSR⁴ still requires BACT unless it is an identical replacement, which does not require a new permit according to Rule 219 -Equipment Not Requiring a Written Permit Pursuant to Regulation II.

BACT is not required for a change of operator, provided the facility is a continuing operation at the same location, without modification or change in operating conditions.

In case of relocation of a non-major facility, the facility operator may opt out of installing MSBACT, provided that the owner/operator meets the conditions specified in Rule 1302 (ai) and Rule 1306 (d)(3).5

PSD applies to GHG if the source is otherwise subject to PSD for another regulated NSR pollutant and the source is new with a GHG PTE \geq 75,000 tons per year CO₂e, or an existing source with a modification resulting in a similar GHG emissions increase.

It is SCAQMDSouth Coast AQMD policy that BACT is required only for emission increases greater than or equal to one (1.0) pound per day.

In accordance with policy established by SCAQMDSouth Coast AQMD's Engineering and Permitting division in June 2018, for the purpose of preventing circumvention of triggering a BACT requirement, a period of 5 years prior to the date of application submittal shall be used to accumulate all previous permitting actions allowing emission increases for that specific permit unit to determine if emission increases exceed or

⁴ See Rules 1303(a) and 1304(a).

⁵ USEPA has expressed concerns with this provision of the NSR Rules for minor polluting facilities as of September 2000. Staff will continue to work with USEPA to resolve this issue.

equal 1.0 pound per day for any nonattainment air contaminant, any ozone depleting compound, or ammonia.

CALCULATION PROCEDURES FOR EMISSION INCREASES

The calculation procedures for determining whether there is an increase in emissions from an equipment modification that triggers BACT are different for NOx and SOx pollutants from RECLAIM facilities than for all other cases. In general, the calculation procedures for RECLAIM facilities are less likely to result in an emission increase that requires BACT.

For NOx and SOx emissions from a source at a RECLAIM facility, there is an emission increase if the maximum hourly potential to emit is greater after the modification than it was before the modification.⁶

For modifications subject to Regulation XIII, there are two possible cases⁷:

- 1. If the equipment was previously subject to NSR, an emission increase occurs if the new potential to emit in one day is greater than the previous potential to emit in one day.
- 2. If the equipment was never previously subject to NSR, an emission increase occurs if the new potential to emit in one day exceeds the actual average daily emissions over the two-year period, or other appropriate period, prior to the permit application date. However, for the installation of air pollution controls on any source constructed prior to the adoption of the NSR on October 8, 1976 for the sole purpose of reducing emissions, Rule 1306(f) allows the emission change to be calculated as the post-modification potential to emit minus the pre-modification potential to emit.

The potential to emit is based on permit conditions that directly limit the emissions, or, if there are none, then the potential to emit is based on:

- maximum rated capacity; and
- the maximum daily hours of operation; and
- the physical characteristics of the materials processed.

⁶ See Rule 2005(d).

⁷ See Rule 1306(d)(2).

Chapter 4 - What is BACT?

This chapter explains the definitions of BACT found in <u>SCAQMDSouth Coast AQMD</u> rules, state law and federal law.

NSR RULES (REGULATION XIII)

New sources, relocations, and modifications of existing sources that increase nonattainment air contaminant emissions are subject to New Source Review (NSR) regulations which require BACT, among other requirements. Both federal and state laws require this strategy. The federal Clean Air Act (CAA) requirement for Lowest Achievable Emission Rate (LAER) is implemented through BACT in the SCAQMDSouth Coast AQMD. Federal LAER applies to major sources only. Although federal LAER applies to any emissions increase at a major stationary source of ozone precursors, SCAQMDSouth Coast AQMD has interpreted this provision as a 1.0 lb/day increase in emissions from all sources subject to NSR. According to SCAQMDSouth Coast AQMD's rules, BACT requirements may not be less stringent than federal LAER for major polluting facilities. The California Health & Safety Code (H&SC) Section 40405 defines state BACT similar to federal LAER and requires the application of BACT for all new and modified permitted sources subject to NSR.

PSD RULES (REGULATION XVII)

New sources, relocations, and modifications of existing sources that emit attainment air contaminant emissions and certain other specified pollutants are subject to Prevention of Significant Deterioration (PSD) regulations, which require BACT. Pursuant to Rule 1701, the BACT requirement applies to a net emission increase from a permit unit located at minor and major stationary sources. The intention of the PSD requirement is to implement a similar requirement as Regulation XIII to maintain national ambient air quality standards for attainment air contaminants.

DEFINITION OF BACT

Definitions of BACT are found in: Rule 1302 -Definitions of Regulation XIII - New Source Review, which applies to all cases in general, except for Rule 1702 – Definitions, which applies only to attainment air contaminants, and Rule 2000 - General, which applies to NOx and SOx emissions from RECLAIM facilities. While the definitions are not identical, they are essentially the same. Section (h) of Rule 1302 - Definitions defines BACT as:

BEST AVAILABLE CONTROL TECHNOLOGY (BACT) means the most stringent emission limitation or control technique which:

- (1) has been achieved in practice for such category or class of source; or
- (2) is contained in any state implementation plan (SIP) approved by the United States Environmental Protection Agency (EPA) for such category or class of source. A specific limitation or control technique shall not apply if the owner or operator of the proposed source

demonstrates to the satisfaction of the Executive Officer or designee that such limitation or control technique is not presently achievable; or

(3) is any other emission limitation or control technique, found by the Executive Officer or designee to be technologically feasible for such class or category of sources or for a specific source, and cost-effective as compared to measures as listed in the Air Quality Management Plan (AQMP) or rules adopted by the <u>DistrictSouth Coast AQMD</u> Governing Board.

The first two requirements in the BACT definition are required by federal law, as LAER for major sources. The third part of the definition is unique to <u>SCAQMDSouth Coast</u> <u>AQMD</u> and some other areas in California, and allows for more stringent controls than LAER.

Rule 1303(a)(2) requires that economic and technical feasibility be considered in establishing the class or category of sources and the BACT requirements for non-major polluting facilities.

REQUIREMENTS OF HEALTH & SAFETY CODE SECTION 40440.11

Senate Bill 456 (Kelley) was chaptered into state law in 1995 and became effective in 1996. H&SC Section 40440.11 specifies the criteria and process that must be followed by the <u>SCAQMDSouth Coast AQMD</u> to update its BACT Guidelines to establish more stringent BACT limits for listed source categories. After consultation with the affected industry, the CARB, and the U.S. EPA, and considerable legal review and analysis, staff concluded that the process specified in SB 456 to update the BACT Guidelines should be interpreted to apply only if the <u>SCAQMDSouth Coast AQMD</u> proposes to make BACT more stringent than LAER or to establish BACT for non-major sources. This is because the CAA requires the <u>SCAQMDSouth Coast AQMD</u> staff to apply current LAER for major polluting facilities, even if the proposed LAER determination has not gone through the SB456 process. Therefore, the SB 456 requirements do apply to BACT requirements for non-major polluting facilities, but do not apply to federal LAER determinations for major polluting facilities.

CLEAN FUEL GUIDELINES

In January 1988, the <u>SCAQMDSouth Coast AQMD</u> Governing Board adopted a Clean Fuels Policy that included a requirement to use clean fuels as part of BACT. The implementation of this policy is further described in Parts A and C of these guidelines.

Chapter 5 - Review of Staff BACT Determinations

New BACT determinations and guideline updates proposed by <u>SCAQMDSouth</u> <u>Coast AQMD</u> staff are subject to public notification requirements. In addition to allowing the public to comment on these items, the <u>SCAQMDSouth Coast AQMD</u> has established a BACT Scientific Review Committee (BACT SRC) to review and comment on technical matters of the proposals.

The <u>SCAQMDSouth Coast AQMD</u> has included provisions for an applicant to request a review of particular circumstances regarding a permit application and reconsideration of the BACT determination. Additional avenues are available to permit applicants for further review of staff BACT determinations through <u>SCAQMDSouth Coast AQMD</u> management, BACT Review Committee, Hearing Board, and the Governing Board.

BACT SCIENTIFIC REVIEW COMMITTEE (BACT SRC)

The BACT SRC was established as a standing committee by action of the SCAQMDSouth Coast AQMD Governing Board on September 8, 1995 to enhance the public participation process and include technical review and comments by a focused committee at periodic intervals, prior to the updates of the SCAQMDSouth Coast AQMD BACT Guidelines. A 30-day notice period applies for the BACT SRC and interested persons to review and comment on SCAQMDSouth Coast AQMD BACT determinations that result in BACT requirements that are more stringent than previously imposed. BACT SRC members, include but are not limited to, representatives from CARB, U.S. EPA, neighboring Air Pollution Control Districts (APCD), with the balance of the committee created by invitation of recognized experts from industry, public utilities, suppliers of air pollution control equipment and advocacy groups. Whenever a committee member resigns or is no longer able to serve, SCAQMDSouth Coast AQMD seeks out an appropriate replacement to join the committee. A list of current BACT SRC members can be accessed at

www.aqmd.gov/home/permits/bact/scientific-review-committee/src-members.

The overall purpose of the BACT Scientific Review Committee is to:

- Comment on proposed new and more stringent BACT determinations in permit applications under 30-day public review.
- Comment on proposed BACT listings for all parts of the BACT Guidelines.

Except for the above, the BACT SRC's purpose is not to comment on past permitting decisions or change them. Specifically, the role of the BACT SRC is to review and comment in writing on the appropriateness of new BACT determinations under 30-Day public review. During this comment period, <u>SCAQMDSouth Coast AQMD</u>, State, and Federal required permit issuance timelines are still in effect. <u>SCAQMDSouth Coast AQMD</u> BACT staff will commit to sending the BACT SRC newly proposed BACT listings at least seven days prior to the next scheduled BACT SRC meeting. Meetings will typically consist of a presentation by BACT Team (BACTTeam@aqmd.gov) staff of new BACT forms and technical data and a general discussion of the proposed BACT listings, as well as addressing any preliminary written comments received from the public and BACT SRC prior to the meeting. SCAQMDSouth Coast AQMD staff will respond in writing to preliminary comments about new BACT proposals within thirty days of the subject BACT SRC meeting. New issues raised during the BACT SRC meetings regarding newly proposed BACT listings will be addressed at the subsequent BACT SRC meeting to allow time for SCAQMDSouth Coast AQMD staff to research the comments. SCAQMDSouth Coast AQMD Engineering staff may also respond to specific issues raised at the following BACT SRC meeting.

In addition to newly proposed BACT listings, the BACT SRC will be tasked with reviewing and commenting on updates to the policy and procedure sections of the BACT Guidelines prior to the guidelines being presented to the <u>SCAQMDSouth</u> <u>Coast AQMD</u> Governing Board for approval.

MEETING WITH SCAQMDSOUTH COAST AQMD MANAGEMENTT

SCAQMDSouth Coast AQMD management, starting with the Senior Engineering Manager of the permitting team, can consider unique and site-specific characteristics of an individual permit. The allowance for site-specific characteristics has been designed into the guidelines and can be reviewed with the manager of the section processing the permit. It is also possible to request review at the next level, with the Assistant Deputy Executive Officer of Engineering and Compliance. The Senior Engineering Managers and the Assistant Deputy Executive Officers are empowered to make case-by-case decisions on an individual permit. Further review can be obtained through a meeting with the Deputy Executive Officer (DEO) of Engineering and Compliance. Ultimately, all permitting decisions are the responsibility of the Executive Officer.

THE BACT REVIEW COMMITTEE

Beyond meetings with <u>South Coast</u> AQMD management, an applicant may also request, prior to permit issuance or denial, that the proposed BACT for an individual permit be reviewed by the BACT Review Committee (BRC). The BRC is composed of five senior-level <u>SCAQMDSouth Coast AQMD</u> officials - the DEO of <u>Public AffairsLegislative</u>, <u>Public Affairs/Media Office</u>; the DEO of Science and Technology Advancement; the DEO of Engineering an <u>Permitting</u>; the DEO of Planning, Rule Development and Area Sources; and General Counsel. This committee can review pending individual applications and decide if the BACT determination is appropriate. The BRC can be accessed without any fee or legal representation, and will meet upon demand.

THE SOUTH COAST AQMD HEARING BOARD

After the permit is issued or denied, the applicant can seek further independent review of an individual BACT determination through the <u>SCAQMDSouth Coast</u> <u>AQMD</u> Hearing Board. In order to access this venue, the permit applicant would need to submit a petition and fee to appeal the final BACT determination by <u>SCAQMDSouth Coast AQMD</u> (once the permit is denied or issued)⁸. The Hearing Board is an independent, quasi-judicial body composed of five members, who can

⁸ Applicants must file an appeal petition with the Hearing Board within thirty days of the receipt of the permit or the notification of permit denial. See Rule 216 - Appeals, Regulation V - Procedure Before the Hearing Board, and Rule 303 - Hearing Board Fees for more information.

review a permitting decision by the Executive Officer. In this venue, legal counsel represents the <u>SCAQMDSouth Coast AQMD</u>. Although not required, many petitioners choose to have legal counsel to represent their position.

THE SOUTH COAST AQMD GOVERNING BOARD

Any applicant may petition the <u>SCAQMDSouth Coast AQMD</u> Governing Board to review a pending application pursuant to <u>SCAQMDSouth Coast AQMD</u> Regulation XII and Health and Safety Code Section 40509. While the Governing Board has the authority to hear and consider any pending permit application, it has rarely done so. It is important to note that this action must be taken while the permit application is pending with staff. Once staff reaches its decision, the only avenue of appeal is through the Hearing Board and ultimately to court.