

## DOCKETED

<b>Docket Number:</b>	16-IEPR-06
<b>Project Title:</b>	Southern California Electricity Infrastructure Reliability
<b>TN #:</b>	213008
<b>Document Title:</b>	Presentation - 2016 IEPR Update Lead Commissioner Workshop August 29, 2016
<b>Description:</b>	*** This Documen Supersedes TN 212987 *** by: Bhaskar Chandan, P.E, QEP, Air Quality Analysis & Compliance Supervisor, Engineering & Permitting
<b>Filer:</b>	Raquel Kravitz
<b>Organization:</b>	South Coast Air Quality Management District
<b>Submitter Role:</b>	Public Agency
<b>Submission Date:</b>	8/29/2016 9:43:12 AM
<b>Docketed Date:</b>	8/29/2016

# 2016 IEPR UPDATE LEAD COMMISSIONER WORKSHOP

California Energy Commission

August 29, 2016  
Sacramento, CA

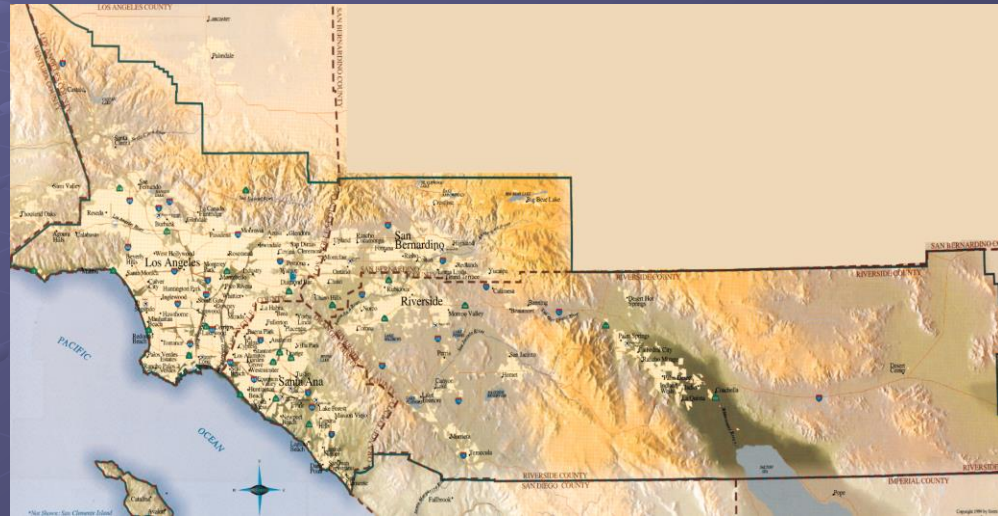


**Bhaskar Chandan, P.E, QEP**  
Air Quality Analysis & Compliance Supervisor  
Engineering & Permitting  
South Coast Air Quality Management District



# What is South Coast Air Quality Management District?

- Local Air Pollution Control Agency in **Southern California** (All of Orange & Metropolitan Parts of Los Angeles, Riverside & San Bernardino Counties)
- **Population of 16.4 million** (about half of California State's population)
- Area of 10,743 mi<sup>2</sup>
- Regulate 27,000 facilities, including 393 Major Sources
- **Worst air quality in the U.S.** (Ozone & PM 2.5)





# Title V Permit Program

- National Operating Permit Program Established under Title V of the 1990 Clean Air Act Amendments
- Provides Consistent Permitting Process for Major Stationary Sources Nationwide
- Consolidates requirements into One Document
- Increases Compliance Accountability by Facility Operator
- Enhances Public Participation and EPA review of Permits

# Who Is Subject to Title V Permit?

- Major Stationary Sources of Toxic and Non-Toxic Pollutants

	<u>CO</u>	<u>NOx</u>	<u>VOC</u>	<u>SOx</u>	<u>PM<sub>10</sub></u>	<u>HAPs</u>
Major Source	50	10	10	100	70	10/25
Thresholds (tons/yr)						

- Facilities Subject to Federal Regs. Such As:
  - Acid Rain Program (Title IV / Power Plants)
  - New Source Performance Standard (NSPS)
  - National Emission Standard for Hazardous Air Pollutants (NESHAP)

# SCAQMD's Permitting Process

## ● Permit Application Prescreening/ Completeness Determination

- Equipment Description
- Emission Information
- CEQA Determination (CEC is Lead Agency)

## ● Engineering Evaluation

- Best Available Control Technology (BACT)
- Air Emissions Modeling Analysis
- Emission Offsets
- Health Risk Assessment for Toxics Emissions
- Other Applicable Rules

## ● Public Notice/ Public & other Agency Comments

## ● Review and Consider Comments prior to Final Permit Action



# General Power Plant Permitting Process

- South Coast Air Quality Management District (SCAQMD)
  - **Air Permitting Authority** for all Power Plants within SCAQMD
  - **Co-Air Permitting Authority** with California Energy Commission (CEC) for Power Plants 50 MWs or larger
- **Lead agency** for preparation of environmental impacts analysis for Power Plants
  - <50 MWs generally the City or County
  - $\geq$ 50 MWs CEC



# Permitting/Licensing Process

## ● South Coast AQMD's Role

- Local / Regional Air pollution control agency
- Permitting Authority for power plants rated less than 50 MWs
- Permitting Authority for SCAQMD's Title V Permit and Determination of Compliance (DOC) for CEC license for power plants rated 50 MWs or larger

## ● California Energy Commission's Role

- State Agency in Sacramento implementing energy programs
- Primary Licensing Authority for power plants rated 50 MWs or larger
- Lead agency for the California Environmental Quality Act (CEQA)



# SCAQMD Determination of Compliance (DOC) & Permitting Process

In order for SCAQMD to grant a Permit, project must meet specific requirements:

## ● New Source Review for Criteria Emissions

- Best Available Control Technology/Lowest Achievable Emission Rate (BACT/LAER)
- Air Quality Modeling Analysis
- Emission Offsets

## ● New Source Review for Toxics

- Cancer Risk
- Non-Cancer Risk

## ● Prevention of Significant Deterioration for Criteria Emissions

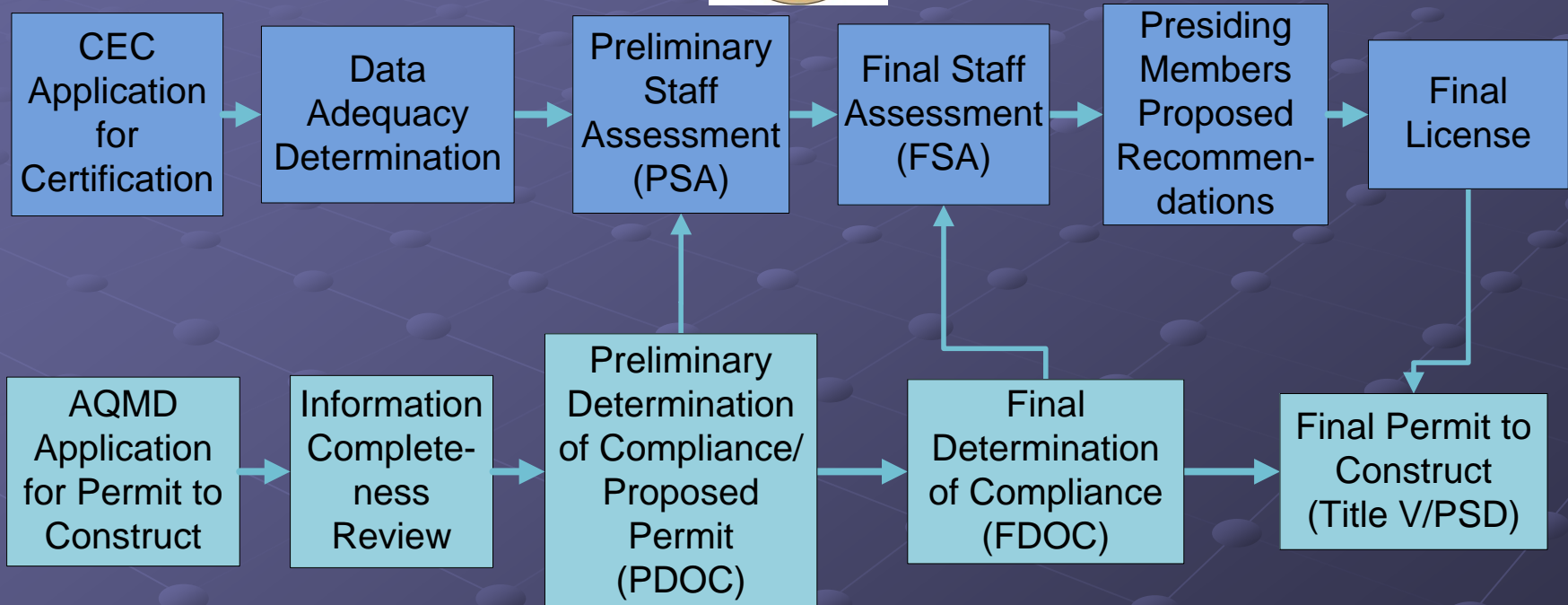
- Best Available Control Technology (BACT)
- Air Quality Modeling Analysis
- Visibility Modeling Analysis

# SCAQMD Determination of Compliance (DOC) & Permitting Process (cont'd)

- **Prevention of Significant Deterioration for Greenhouse Gases**
  - Best Available Control Technology (BACT)
- Other requirements (i.e., continuous monitoring, record keeping and reporting)
- **Public Notice / Public Comments / EPA Review**

# CEC/ SCAQMD Permitting Process

## CEC Licensing Process



## SCAQMD Permitting Process





# Recent Electric Generation Permitting

## Issued permits

- LADWP Scattergood Repower – 524 MW
- Pasadena DWP Repower – 71 MW



## Pending permits

- NRG El Segundo Repower - 449 MW (order withdrawing petition to amend Aug 2016)
- AES Huntington Beach Repower - 844 MW
- AES Redondo Beach Repower – 546 MW (Request for suspension to February 2017)
- AES Alamos Repower – 1095 MW

# Addressing Emission Offset Needs

- Procure credits in open market, or
- Use AQMD internal bank
  - Rule 1304.1 (adopted Sept. 2013)
    - Provides power producers at existing locations the option to pay a fee to use offsets from the SCAQMD for repowering utility boilers
    - Upfront payment in full or annual payments
    - 9 anticipated repowering projects
  - Potentially >5,700 MW power replacement

# Addressing Emission Offset Needs (con't)

- To facilitate compliance with the emission offset requirements, SCAQMD is developing two new rules:
  - Proposed Rule 1304.2  
California Public Utilities Commission – Regulated Electrical Generating Facility Fee for Use of SO<sub>x</sub>, PM<sub>10</sub> and NO<sub>x</sub> Offsets
  - Proposed Rule 1304.3  
Local Publicly Owned Electrical Generating Facility Fee for Use of SO<sub>x</sub>, PM<sub>10</sub> and NO<sub>x</sub> Offsets
- Anticipated adoption – January 2017



# For further information please contact:

Andrew Lee

Senior Engineering Manager

Office of Engineering and Permitting

South Coast Air Quality Management District

Phone: (909) 396-2643

Email: [ALee@aqmd.gov](mailto:ALee@aqmd.gov)

Bhaskar Chandan

Air Quality Analysis & Compliance Supervisor

Office of Engineering and Permitting

South Coast Air Quality Management District

Phone: (909) 396-3902

Email: [Bchandan@aqmd.gov](mailto:Bchandan@aqmd.gov)