California Regulation for the Mandatory Reporting of Greenhouse Gas Emissions

2012 GHG Reporting
Refinery Product Data Reporting

February 28, 2013
Presentation Slides Available Here:
http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance-training.htm
Outline

• Introduction
• Guidance
  – Defining Refinery Products
  – Monitoring Systems
  – Blendstocks & Feedstocks Refined Off-Site
  – Ethanol
  – Products Combusted On-Site
  – Finished Products
  – Calcined Coke
  – Verification
• Resources
• Q&A
Regulatory Overview

• Mandatory Reporting Regulation (MRR) Section 95113(l):
  – Calcined coke added to covered product data
  – Single product data component is now “sum of all covered products”

• Cap-and-trade allowances are allocated based on covered product data (as defined in Section 95102)
Refinery Product Data

• Based on finished products
  – Products exit refinery gates
  – Includes feedstocks and blendstocks (such as RBOB, butane, pentane, alkylate, toluene, etc.)

• Report under section 95113 in the reporting tool
  – All EIA categories listed in the reporting spreadsheet, unless burned onsite
Product Data vs. Transportation Fuels

• Differentiate between section 95113 and section 95121 reporting:
  – Refinery operators report all products listed in 40 CFR Part 98 Tables C-1 and MM-1 except those combusted on-site
    • Not used for calculating emissions
    • Used to determine allocation of cap-and-trade allowances
  – Transportation fuel suppliers report only the fuel types listed in section 95121
    • Used for calculating emissions
• Reporting entities may use an accepted method to report product data conforming to sections 95103(k), 95105(c) and 95131(b):
  – Direct meters not meeting section 95103(k)(7) but otherwise accurate to section 95103(k)
  – Sales or shipment transaction records based on financial transaction meters
  – Sales or shipment transaction records without metered product data
Blendstocks & Feedstocks

• For blendstocks and feedstocks transferred between refineries
  – Do not subtract volume of received blendstock or feedstock from reported finished product data
• Example: A refinery receives crude oil, converts it to gasoline blendstock, then purchases other blendstocks, mixing to sell finished gasoline over a rack:
  – Report product data according to the diagram

[Diagram showing the flow of blendstocks and feedstocks from crude oil to refined gasoline]
Ethanol

Purchased for Use On-Site
- Typical for petroleum refineries
- Blended with RBOB to make finished gasoline
- Report:
  - Volume of finished gasoline blended with ethanol (EIA 125)
- ARB uses assumed blending ratio for allocation purposes

Produced On-Site
- Not typical for petroleum refineries
- Blended with RBOB to make finished gasoline
- Report:
  - Volume of ethanol, as finished product data (EIA 141)
  - Associated volume of RBOB (EIA 118)
Products Combusted On-Site

• Table C-1 includes products which are produced on-site and then burned as fuel:
  – Do not report as product data under section 95113 (since they do not leave the facility gate)
  – Report combusted products pursuant to section 95115 for stationary combustion emissions
Calcined Coke

• Calcined coke has been added to the regulation as covered product data
  – Operator must specify whether calciner is integrated with the refinery operation
  – Subject to material misstatement evaluation
  – Used for allowance allocations in the cap-and-trade program

• Petroleum coke is not covered product data
  – Subject to a conformance check during verification
  – No allocations are based on this product
Material Misstatement Assessment

• Material Misstatement now applies to the sum of all covered products:
  – Section 95113 product data is applied to the sum of all primary refinery products reported in barrels
  – Asphalt (EIA 931) may be converted to barrels by
    • EIA conversion factor of 5.5 barrels per short ton
    • Measured density at least one time per calendar year

• Note: Hydrogen production produced by refinery operators is not a covered product. Hydrogen production is evaluated for conformance only.
Questions?
Additional Training

• ARB sector-specific training (see link for times)
  http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm

  – Mid-April - Electric Power Entities

• Contact ARB staff as needed for questions
<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
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<tbody>
<tr>
<td>February 1</td>
<td>Regulatory deadline: Due date for electric power entities to register specified facilities outside California</td>
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<tr>
<td>February 13</td>
<td>Public release of Cal e-GGRT</td>
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<tr>
<td>April 10</td>
<td>Regulatory deadline: Reporting deadline for facilities and suppliers of fuels and carbon dioxide, except when subject to abbreviated reporting</td>
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<tr>
<td>June 3</td>
<td>Regulatory deadline: Reporting deadline for electric power entities and those subject to abbreviated reporting</td>
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<td>July 15</td>
<td>Regulatory deadline: Deadline for corrections to RPS Adjustment data required for electric power entity data reports</td>
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<tr>
<td>September 3</td>
<td>Regulatory deadline: Final verification statements due (emissions data and product data)</td>
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# GHG Reporting Contacts

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>Contact</th>
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<tbody>
<tr>
<td>GHG Mandatory Reporting (General)</td>
<td><strong>Dave Edwards,</strong> Manager</td>
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<tr>
<td></td>
<td>916.323.4887</td>
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<tr>
<td>Reporting Requirements, Stationary Combustion, Other Sectors (cement, glass,</td>
<td><strong>Patrick Gaffney</strong></td>
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<td>pulp and paper, etc.)</td>
<td>916.322.7303</td>
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<tr>
<td>Reporting Tool Registration and General Questions</td>
<td><strong>Karen Lutter</strong></td>
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<td>916.322.8620</td>
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<td>Electricity Generation and Cogeneration Facilities</td>
<td><strong>Anny Huang</strong></td>
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<td>Electricity Retail Providers and Electricity Marketers</td>
<td><strong>Wade McCartney</strong></td>
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<td>916.327.0822</td>
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<tr>
<td>Fuel and CO₂ Suppliers - Transportation Fuels, Natural Gas, LPG, CO₂</td>
<td><strong>Syd Partridge</strong></td>
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<td>916.445.4292</td>
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<tr>
<td>Petroleum Refineries, Hydrogen Plants, Oil &amp; Gas Production</td>
<td><strong>Byard Mosher</strong></td>
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<td>916.323.1185</td>
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<tr>
<td>Product Data – Refineries, and Oil &amp; Gas</td>
<td><strong>Joelle Howe</strong></td>
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<td>916.322.6349</td>
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<td>Greenhouse Gas Report Verification</td>
<td><strong>Renee Lawver,</strong> Manager</td>
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<td>916.322.7062</td>
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<td>Chief – Greenhouse Gas Emission Inventory Branch</td>
<td><strong>Richard Bode,</strong> Chief</td>
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<td>916.323-8413</td>
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Resources

- Reporting Guidance: Applicability, Metering
  [http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm](http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm)

- Tool Training: Registration, Subparts
  [http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm](http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm)

- Cal e-GGRT Main Help Page
  [http://www.ccdsupport.com/confluence/display/calhelp/Home](http://www.ccdsupport.com/confluence/display/calhelp/Home)