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

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

Monitoring Systems

- 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

<table>
<thead>
<tr>
<th>Blendstock</th>
<th>Gasoline</th>
<th>Refinery</th>
<th>Purchased for Use On-Site</th>
<th>Produced On-Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 units finished gasoline (product data)</td>
<td>12 units of blendstock refined from crude oil</td>
<td>10 units of blendstock refined from crude oil</td>
<td>Typical for petroleum refineries</td>
<td>Not typical for petroleum refineries</td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 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

Key Reporting Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 1</td>
<td>Regulatory deadline: Due date for electric power entities to register specified facilities outside California</td>
</tr>
<tr>
<td>February 13</td>
<td>Public release of Cal e-GGRT</td>
</tr>
<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>
</tr>
<tr>
<td>June 3</td>
<td>Regulatory deadline: Reporting deadline for electric power entities and those subject to abbreviated reporting</td>
</tr>
<tr>
<td>July 15</td>
<td>Regulatory deadline: Deadline for corrections to RPS Adjustment data required for electric power entity data reports</td>
</tr>
<tr>
<td>September 3</td>
<td>Regulatory deadline: Final verification statements due (emissions data and product data)</td>
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</table>

GHG Reporting Contacts

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHG Mandatory Reporting (General)</td>
<td>Dave Edwards, Manager 916.323.4887</td>
</tr>
<tr>
<td>Reporting Requirements, Stationary Combustion, Other Sectors (cement, glass, pulp and paper, etc.)</td>
<td>Patrick Gaffney 916.322.7303</td>
</tr>
<tr>
<td>Reporting Tool Registration and General Questions</td>
<td>Ethan Luther 916.322.8636</td>
</tr>
<tr>
<td>Electricity Generation and Cogeneration Facilities</td>
<td>Anna Huang 916.323.4479</td>
</tr>
<tr>
<td>Electricity Retail Providers and Electricity Marketers</td>
<td>Wade McCartney 916.327.0822</td>
</tr>
<tr>
<td>Fuel and CO2 Suppliers - Transportation Fuels, Natural Gas, LPG, CO2</td>
<td>Sad Partridge 916.445.4292</td>
</tr>
<tr>
<td>Petroleum Refineries, Hydrogen Plants, Oil &amp; Gas Production</td>
<td>Byard Mosher 916.323.1185</td>
</tr>
<tr>
<td>Product Data – Refineries, and Oil &amp; Gas</td>
<td>Izzy Haase 916.322.6349</td>
</tr>
<tr>
<td>Greenhouse Gas Report Verification</td>
<td>Renee Lawver, Manager 916.322.7062</td>
</tr>
<tr>
<td>Chef – Greenhouse Gas Emission Inventory Branch</td>
<td>Richard Bode, Chief 916.323.8413</td>
</tr>
</tbody>
</table>

Resources

- Reporting Guidance: Applicability, Metering  
  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

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