

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

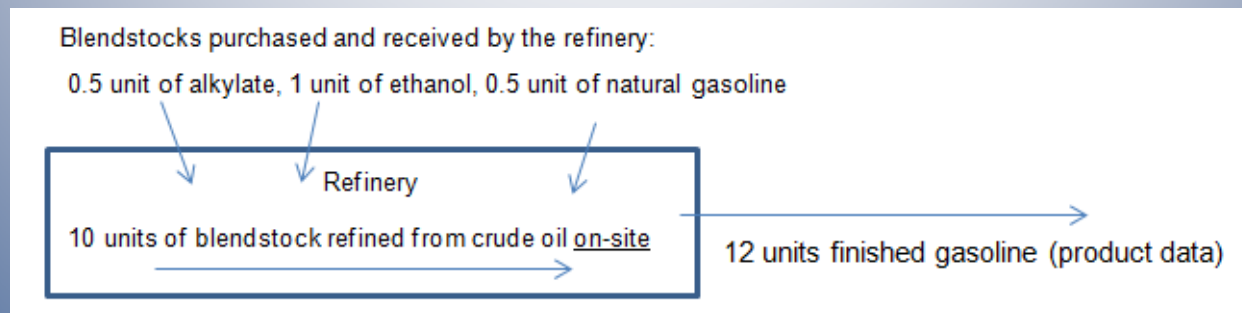
- Differentiate between section 95113 and section 95121 reporting:
 - Refinery operators report all products listed in 40 CFR Part 98 Tables C-1 and MM-1 except those combusted on-site
 - Not used for calculating emissions
 - Used to determine allocation of cap-and-trade allowances
 - Transportation fuel suppliers report only the fuel types listed in section 95121
 - Used for calculating emissions

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



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

Key Reporting Dates

Date	Activity
February 1	Regulatory deadline: Due date for electric power entities to register specified facilities outside California
February 13	Public release of Cal e-GGRT
April 10	Regulatory deadline: Reporting deadline for facilities and suppliers of fuels and carbon dioxide, except when subject to abbreviated reporting
June 3	Regulatory deadline: Reporting deadline for electric power entities and those subject to abbreviated reporting
July 15	Regulatory deadline: Deadline for corrections to RPS Adjustment data required for electric power entity data reports
September 3	Regulatory deadline: Final verification statements due (emissions data and product data)

GHG Reporting Contacts

Subject Matter	Contact
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Petroleum Refineries, Hydrogen Plants, Oil & Gas Production	Byard Mosher 916.323.1185
Product Data – Refineries, and Oil & Gas	Joelle Howe 916.322.6349
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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>