GHG Reporting Kickoff for 2014 Data
Regulation Changes, Product Data, Fees Data, Tool Changes, Others

March 11, 2015
Presentation Slides Available Here:
http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance-training.htm

2013 Data Reporting Recap
• 750 reports submitted
• 519 verified
  – 100% received positive emissions verification statements (includes 12 qualified positive)
• Summary data posted for all reports
  – http://www.arb.ca.gov/cc/reporting/ghg-rep/reported-data/ghg-reports.htm

Outline
• Overview
• Regulation Updates
• Preparing for 2014 Data Reporting
• Cal e-GGRT Reporting Tool Updates
• Refinery and Hydrogen Product Data
• Other topics
• Questions

Note: This webinar focuses on facility and fuel supplier reporting. A separate webinar will be provided for Electric Power Entities in April 2015

Reporting Schedule
• April 10, 2015
  – Reports due for all entities except Electric Power Entities
  – No time extensions
• June 1, 2015
  – Reports due for EPEs and electricity retail providers
  – Reports due for abbreviated reporters
• Failure to submit a report by the required deadline is a violation of the regulation for each day the report remains unsubmitted
• Key Dates Reference Page:
  http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-dates.htm
Verification Schedule

- September 1, 2015
  - Final Verification Statements due for all emissions and product data
  - No time extensions
- Start early to ensure on-time completion and to correct any issues identified during verification
- Verifiers must submit Adverse statement if verification not completed on time
- Failure to have a verification statement(s) submitted by the verification deadline is a violation of the regulation for each day the verification statement remains unsubmitted

Enforcement Summary

- Issues that could lead to enforcement actions
  - Incorrect data submitted
  - Errors leading to a material misstatement
  - Failure to fix correctable errors
  - Late reports or failure to report
  - Late verification or no verification
- ARB has completed multiple enforcement actions related to reporting, and continues enforcement activities
- As completed, case settlements are posted here: http://www.arb.ca.gov/enf/casesett/casesett.htm

Updates to the Regulation for 2014 Data Reporting

- Revisions went into effect January 1, 2015
- Regulation available here: http://www.arb.ca.gov/cc/reporting/ghg-rep/regulation/mrr-regulation.htm
- All updates are effective for 2014 data reporting
  - Best available methods are only allowed for reporting primary refinery products and calcined coke (2014 data only, §95103(h))
- No plans for regulation updates in 2015
Key Regulation Updates (1)

- Definition updates
- Must exclude inaccurate product data (§95103(l))
- Additional notifications and approvals for changes in methods (§95103(m)), including for covered product data
- New block diagram requirements for legacy contract reporters (§95112(i))
- Covered product data reporting updates
  - Dairy products, tomato processing, tissue products, wineries, etc.
  - Hydrogen plants
  - Refineries (primary refinery products, calcined coke)

Key Regulation Updates (2)

- Integrate Cost of Implementation Fee Regulation data reporting requirements
  - No more “Fee” module in tool
- Transportation fuel suppliers – Added renewable diesel as reportable fuel, clarified biofuel and biomethane requirements
- Natural gas distribution – Requirement to report emissions from customer meters and dig-ins, and provide meter counts
- Verification – Natural gas purchase data and NAICS subject to verification

Global Warming Potentials and Emission Factors

- Same global warming potentials (GWPs) and emission factors (EFs) as used for 2011-2013 data
- ARB regulation refers to 2009 and 2010 versions of U.S. EPA rule (§95100(c))
  - Available here:
    http://www.arb.ca.gov/cc/reporting/ghg-rep/regulation/mrr-regulation.htm
- ARB has not adopted the most recent U.S. EPA GWPs and EFs required for U.S. EPA reporting

Reporting GHG Data
Cal e-GGRT Tool Availability

- Tool available NOW
  - 2014 data reporting activated
- Existing 2013 data configurations were migrated to 2014 reports
  - Reduces setup workload
- Electric Power Entity module will be activated in early April

Reporting Tips

- Start early, finish early
- Involve verifier as soon as possible
  - Include enough time to make verification revisions
- Update DR, ADR, Agents if needed
  - They have access to system until you remove them
- Contact ARB for any questions about requirements (ghgreport@arb.ca.gov)
  - Save and file any ARB responses as part of your GHG Monitoring Plan
- Check ARB guidance: http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm

Verification Tips

- Correctable Errors must be fixed
  - If not, verifier must submit adverse statement
- “Covered Emissions” and “Covered Product Data” must meet accuracy requirements and be reasonably assured of no material misstatement
- COI fee data is not subject to accuracy requirements in section 95103(k) or material misstatement assessment, but risk of misreporting will be reviewed
- If verifier and reporter disagree on requirements, always contact ARB for assistance
- Ensure all GHG Monitoring Plan elements, as required in section 95105(c), are described or referenced, and include all ARB written clarifications regarding reporting in the GHG Monitoring Plan

Cal e-GGRT Data Entry

Updated Elements

Updated Workbooks (1)

- Must use updated workbooks, revised to reflect current reporting requirements
  - Available here: http://www.ccdsupport.com/confluence/display/calhelp/GHG+Reporting+Instructions
- Hydrogen Production – P-1, P-2, P-3 workbooks
- Petroleum and Natural Gas Systems
  - Emissions Workbook (Note: combustion emissions using 95153(y)(2) are reported in Subpart C)
  - Activity Data Workbook
- Refinery – Production Data and Solomon Index
  - Primary Refinery Products reporting modified
  - Fuels for Cost of Implementation Fees
  - Calcined Coke

Updated Workbooks (2)

- Refinery – Complexity Weighted Barrel
  - Cleanup to reflect current requirements
  - Updates to instructions for clarity
- Suppliers of Transportation Fuels
  - Updated to include Renewable Diesel
  - Includes fuel supplier data for COI Fees reporting
- SF₆ Reporting (for sulfur hexafluoride reporters only)
  - Updated for clarity and to reflect requirements
  - SF₆ data are not verified

Updates for COI Fees Reporting Integration

- Updates to workbooks for Refinery Product Data and Transportation Fuel data for COI Fees fuels
- Added fuels to Subpart C & D
  - Natural Gas Produced and Consumed On-Site (not pipeline quality)
  - Natural Gas Produced and Consumed On-Site (pipeline quality)
  - Associated Gas Produced and Consumed On-Site
- Facilities must designate if natural gas received was directly from interstate pipeline
- Additional information collected for intrastate and interstate pipelines

Updated General Product Data Reporting (§95115(n))

- Various updates for sectors
- Report general data in Subpart A
- Contact ARB staff for sector-specific questions
- Product data guidance http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm
• Minor clarifying revisions to section §95121:
  – Importers and in-state producers of biofuels must only report fuel that is delivered “outside the bulk transfer/terminal system”
  – Added renewable diesel as a reportable fuel beginning with 2014 data
  – Clarified that “pure” renewable diesel and biodiesel may contain up to 1% petroleum diesel
• Added non-emissions reporting requirements for COI Fee purposes for position holders and importers:
  – Report total imported CARBOB, California gasoline, California diesel
  – Report total quantity of biodiesel, renewable diesel blended with California diesel
• Revision to tool behavior to retain Calculation Methodology Start Date
• Only revise Start Date if method is modified
• Tool automatically increments End Date year during migration
• Minor clarifying revisions to §95122:
  – Clarified that for LPG products, NGL fractionators must only report the LPG products that were produced on-site at the fractionation facility and sold or delivered to others
    • Except LPG products for which a final destination outside CA can be demonstrated
  – Minor clarifications to ensure consistent reporting of “biomethane” emissions by Local Distribution Companies (LDCs)
• Added non-emissions reporting requirements for COI Fee purposes for Local Distribution Companies
  – Report sum of deliveries (in MMbtu) by the following categories: residential, commercial, industrial, electricity generation, and “other”
  – Report total MMbtu delivered to all end-users

• Best available methods allowed for primary refinery products and calcined coke (§95103(h)) for 2014 data only
• Complexity Weighted Barrel (CWB) calculation methodology modified (§95113(l)(5))
• Reporting Primary Refinery Products – §95113(l) must report onsite production of refinery products, not sales
• Primary refinery products or blending stock produced elsewhere and used only for blending into a primary refinery product shall not be included in primary refinery product reported to ARB

• Finished products and COI products are not covered product data
• Cost of Implementation Fee Data (§95113(m))
  • Was previously reported in “Fees” module, now reported in Cal e-GGRT Production Data Workbook
  • Report CARBOB, Finished California Gasoline, California Diesel, biodiesel, and renewable diesel distributed for use in California
Hydrogen Production

- Composition of all feedstocks – for gaseous, liquid, and solid feedstocks, report both atomic and molecular hydrogen content as well as carbon content (§95114(e))
- Hydrogen sold or transferred – report both the quantity and receiver for all hydrogen sold or transferred (§95114(j))

Petroleum and Natural Gas Systems (1)

- All reporters (except off-shore production)
  - Continue to report data by “sub-facility” (§95156 and §95102(a))
  - Flare emissions – equations modified to simplify calculation, (§95153(l)(5))
  - Centrifugal compressor emissions – report spin-up gas related emissions whether combusted as a fuel, flared, or vented, (§95153(m)(1)(A))
  - Report sorbent CO\textsubscript{2} emissions from fluidized bed boilers w/ flue gas desulfurization, (§95153(y)(5))

Petroleum and Natural Gas Systems (2)

- On-Shore Petroleum and NG Production, NG Processing
  - Report heat energy (MMBtu) of associated gas (production from both thermal EOR and other-than-thermal EOR) using production meters or sales records, or GOR and GWR data (§95156(a)(9) and (10))
  - Report amount of re-injected NGLs into crude as crude oil covered product pursuant to 95156(a)(7) or (8), not as NGLs (§95156(c)(12)
    - All other NGLs produced at the facility should be reported pursuant to 95156(c)
  - Report heat energy of dry gas produced (MMBtu) annually using average HHV (§95156(b))
- On-shore Petroleum and NG Production
  - New voluntarily reporting of renewably produced thermal energy input (MMBtu) to EOR operations, (95157(c)(19)(l))

Combustion Emissions Data Entry for 95153(y)(2)

- If 95153(y)(2) is required, emissions are reported in Subpart C of the reporting tool
- Modified reporting method to accommodate (y)(2) data
- In the Subpart C module, create a Single Unit or Aggregation of Units configuration
- See 2013 training slides for complete walkthrough of 95153(y)(2) approach
Combustion Emissions
New Fuel Added for 95153(y)(2)

• If “Associated Gas” select fuel from system
  – Added for 2014+ reporting
  – Use Associated Gas whenever possible, for consistent reporting
• If “Other” fuel added, must be “Blend (Gas)” type or only Tier 3 method available
  – Use only if no pre-defined fuel available

Natural Gas Distribution

• Pipeline Dig-Ins
  – Report CH₄ and CO₂ emissions (§95152(i)(11))
  – Estimate using measured data or engineering estimates (§95153(w))
  – Report number of dig-ins (§95157(c)(16)(X))
• Customer Meters
  – Report CH₄ and CO₂ emissions (§95152(i)(10))
  – Estimate using methods in §95153(p)(6), using counts and EFs
  – Report number of meters by Residential, Commercial, and Industrial meters (§95157(c)(16)(W))

Petroleum and Natural Gas Systems

• Emissions Workbook Updates (examples)
  • Expanded to separate crude & condensate

Resources
Resource Web Sites

- Email reporting questions to: ghgreport@arb.ca.gov
- Reporting Guidance
  http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm
- Cal e-GGRT Tool Training
  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

Key Reporting Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 2</td>
<td>Regulatory deadline: Due date for electric power entities to register specified facilities outside California</td>
</tr>
<tr>
<td>February 18</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 1</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 1</td>
<td>Regulatory deadline: Final verification statements due (emissions data and product data)</td>
</tr>
</tbody>
</table>

GHG Reporting Contacts

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manager – Climate Change Reporting Section</td>
<td>Briane Aguila, Manager</td>
</tr>
<tr>
<td>General Reporting Requirements, Stationary Combustion, Miscellaneous Section, Cal e-GGRT Reporting</td>
<td>Patrick Gaffney, 916.322.7303</td>
</tr>
<tr>
<td>Reporting Tool Registration and General Questions</td>
<td>Karen Lutter, 916.322.8620</td>
</tr>
<tr>
<td>Electricity Generation and Cogeneration Facilities</td>
<td>Wade McCartney, 916.327.0822</td>
</tr>
<tr>
<td>Electricity Retail Providers and Electricity Marketers</td>
<td>Syd Partridge, 916.445.4292</td>
</tr>
<tr>
<td>Petroleum Refineries, Hydrogen Plants, Oil &amp; Gas Production, and Associated Product Data</td>
<td>Byard Minnet, 916.322.1185</td>
</tr>
<tr>
<td>Manager – Greenhouse Gas Report Verification</td>
<td>Renee Linevar, Manager</td>
</tr>
<tr>
<td>Chief – Program Planning and Monitoring Branch</td>
<td>Jim Aguila, Chief</td>
</tr>
</tbody>
</table>

END