

California Global Warming Solutions Act of 2006

GHG Mandatory Reporting
Preparing for 2010 Reporting
and Verification

California Air Resources Board

January 27, 2010

Participation Information

- Slides for Today's Training:
<http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm>
- Webinar Registration Information
(must pre-register to participate)
<https://www2.gotomeeting.com/register/261559154>
- Stepwise Reporting Tool Guidance:
<http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
- Regulation and Staff Report
<http://www.arb.ca.gov/regact/2007/GHG2007/GHG2007.htm>

Using the Webinar

- Preregistration is required, see previous slide for link
- For Audio, either use free VoIP through your computer (need speakers & microphone) or via Telephone
 - Phone # visible after joining webinar
 - Must enter Audio PIN to join audio
 - Call is billed as normal long-distance call
- ARB staff will mute/and unmute lines
 - “Raise Hand” to have your line activated for verbal questions
- Type questions into Chat box for text questions

Agenda

- Introduction and Overview
- Some Important Dates
- Getting Ready for 2010 Reporting
 - 1:00 – 2:30
- Preparing for Mandatory Verification
 - 2:30 – 4:00
- Wrap-up

2010 Reporting Due Dates

Sectors

- General Stationary Combustion
(not oil & gas)
- Electricity Generation or Cogeneration
(stand-alone generation facilities)

- Complete Reporting:
April 1, 2010
- Complete Verification:
October 1, 2010
- Important to meet deadlines
- No “best available” data allowed

2010 Reporting Due Dates

Sectors

- Petroleum Refineries
- Hydrogen Plants
- Cement Plants
- GSCs – Oil and Gas Sector
- Retail Providers
- Marketers
- Electricity generation or cogeneration facilities operated by one of above

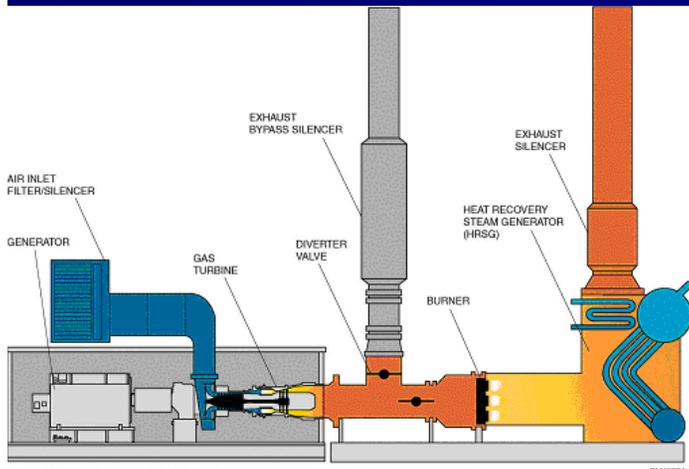
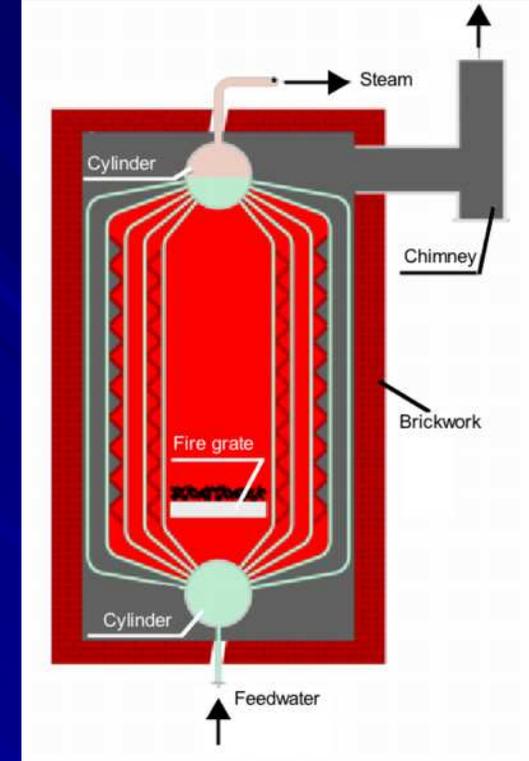
- Complete Reporting: June 1, 2010
- Complete Verification: December 1, 2010
- Important to meet deadlines
- No “best available” data allowed

Revisions to Regulation for 2012 Reporting

- Workshops over next several months to discuss revisions to the reporting regulation
- Support ARB Cap-and-Trade regulation
- Align with U.S. EPA reporting requirements
- Substantial revisions
- To Board October 2010 (scheduled)

GHG Reporting Tool Review

Reporting 2010 GHG Data



Purpose of this Webinar

- Help access reporting tool and input 2009 GHG emissions data
- Assumes understanding of tool and reporting requirements
 - See 2009 Videos and Presentations for using the tool
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
 - See Step-by-Step Guides for using the tool
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
 - Refer to Guidance Documents for questions about calculating GHG emissions
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-guid/ghg-rep-guid.htm>

GHG Reporting Tool

- GHG Reporting Tool designed to address needs of reporters
- Provides reporting, QA, certification, tracking, and verification access
- Allows password-protected access by multiple facility users
- Training Site available for practice

Workflow for Reporting Tool

1. Preparing for Reporting
2. Register using ARB ID and Access Code
3. Update facility descriptive information if needed
4. Check facility configuration for reporting
 - Check emitting activities, fuels, devices
 - Based on 2008 setup
5. Input 2009 fuel use and emissions for defined sources
6. Report energy and production data
7. QA and Certification of data

General Flow of the Tool

Using the GHG Reporting Tool Year 1 –2008 Report Year

Already setup during
2008 reporting

1. Register Your First Facility & User Account (Home Page)
2. Register Additional Facilities (Inside Tool)
3. Complete Basic Facility Information
4. Set Up Additional Users
5. Create Annual Report Structure (Emitting Activities, Units...)
6. Enter Annual Data for 2008
7. Submit Annual 2008 Report

- ❖ Reports must be certified, and then verified as specified in the regulation
- ❖ Verification is required for all reports submitted in 2010

Using the GHG Reporting Tool Year 2 – 2009 Report Year

1. Update Annual Report Structure If Needed.
2. Enter Annual Data for 2009
3. Submit Annual 2009 Report

Includes fuel use and
emissions for 2009

Step 1

Preparing for Reporting

- Review Reporting Tool Primer
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
- Review step-by-step guidance for reporting using tool
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm>
- Collect Facility Information
 - Fuel use, fuel characteristics (HHV, etc.)
 - CEMS or other data
 - Purchase records for electricity, etc.
 - Other data

Step 2 Getting Started – 2010

■ Go to Tool

- <https://ghgreport.arb.ca.gov/eats/carb/>

■ Remember User ID and Password?

- If not, First, try Tool, “Forgot your User ID or Password”
- Second, contact ARB at ghgreport@arb.ca.gov

User Login



User ID *

Password *

Login

[Forgot your User ID or Password](#)

First-Time Users Must Register

For reporters, activate an initial user account for an organization by clicking the Register button below.

You will need the ARB ID and Access Code provided by ARB to your organization's designated contact.

For other interested parties, please email your request for access to the training site to ghgreport@arb.ca.gov.

Register

Reporting 2009 Data: Summary

- ➔ ■ Check general facility information
- ➔ ■ Check facility configuration information
 - Emitting Activities, Generating Units, Devices, Supplemental versus Summed data
- Create 2009 data submissions
- Enter emissions, fuels, energy, and other 2009 data
- Perform QA checks and Certify data submissions
- Third-party verification required

Step 3

Update General Information

- Facility details, addresses, location, etc.
- Add or delete “Contacts” as needed

Facility Name Cement Plant Demonstration - PG
ARB ID 152535
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↓ ↓ ↓ ↓

Facility Details | Addresses | Geographic Location | **Contacts** | Associated Entity | Verification Bodies | Emitting Activities
Generating Units | Devices | Energy and Production | Facility Documents | Facility and Unit Submissions | ARB Notifications | Programs

Facility Details

Energy and Production

Facility Name
Cement Plant Demonstration - PG

ARB ID *
152535

Access Code
DD1525

Primary Reporting Sector *
Cement Plant

Secondary Sectors
Selection denoted by highlighted row(s)
(hold ctrl to select multiple)

Cogeneration Facility
Electricity Generation

NAICS (First 2 digits) *
32 - Wood, Paper, Printing, Petroleum, Chemical, & Non-Metallic Mineral Manufacturing

NAICS *
32731 - Cement Manufacturing

Step 4

Check Facility Configuration

- Emitting Activities
 - And associated fuels
- Devices (i.e., fuel meters)
 - And associated fuels (as applicable)
- Generating Units
 - Electricity or Cogeneration
- Energy and Production
 - Indirect energy use data
 - Electricity or Cogen info (as applicable)

Check Configuration Data

- Are units individually reported where required
- If same data reported for both at facility and generating unit levels, mark one as supplemental
- Delete unnecessary items
 - Tool now allows deletion of units or submissions inadvertently added in 2009
- Other updates?

Check Facility Configuration Info

- Emitting Activities, Generating Units, Devices, Energy and Production

Facility Name Cement Plant Demonstration - PG
 ARB ID 152535

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| | | | | | | |
|----------------------------------|---------------------------|---------------------------------------|------------------------------------|---|-------------------------------------|-------------------------------------|
| Facility Details | Addresses | Geographic Location | Contacts | Associated Entity | Verification Bodies | Emitting Activities |
| Generating Units | Devices | Energy and Production | Facility Documents | Facility and Unit Submissions | ARB Notifications | Programs |

Emitting Activities

| | Emitting Activity Name | Emitting Activity Category | Activity Type | Status | Aggregation Level |
|-----------------------|--|----------------------------|--------------------------------|-----------|-------------------|
| <input type="radio"/> | Primary Kiln Combustion | Stationary Combustion | Rotary Kiln | Operating | Summed |
| <input type="radio"/> | Primary Kiln Process Emissions | Process | Rotary Kiln | Operating | Summed |
| <input type="radio"/> | CO2 from Organics in Feedstocks | Process | Process Vents | Operating | Summed |
| <input type="radio"/> | Coal Storage Fugitive CH4 | Fugitive | Coal Storage | Operating | Summed |
| <input type="radio"/> | Flare Thermal Destruction Device | Stationary Combustion | Flares and Destruction Devices | Operating | Summed |
| <input type="radio"/> | CO2 Venting | Fugitive | Other | Operating | Summed |

Items to Check For

- Summed versus Supplemental data
 - Primarily an issue for electricity generators and cogeneration
 - Confirm emissions not double-reported
 - Cogen distributed emissions are “supplemental”
- Confirm that submission pairs exist at facility level and for generating units

Summed and Supplemental Data

- Select “Supplemental” if already reported elsewhere (e.g., at facility level)
- Select “Summed” if this is the primary reporting for the source

Generating Unit

Generating Unit Name Cogen for Cement Demo
ARB ID 152535-001

Edit Emitting Activity

Emitting Activity Name * Cement Demo Cogen
Emitting Activity Category * Stationary Combustion
Activity Type * Cogeneration Total
Status * Operating
Aggregation Level * Supplemental

Available Fuels (Fuels, Feeds):
Asphalt & Road Oil, Fuel
Asphalt, Fuel
Associated Gas, Fuel
Aviation Gasoline, Fuel
Biodiesel, Fuel
Biogas, Fuel
Biomass Derived Fuels (Solid), Fuel
CA Low Sulfur Diesel - Mobile Sources, Fuel
CA Reformulated gasoline, 5.7% ethanol, Fuel
Coal (Anthracite), Fuel
Coal (Lignite), Fuel
Coal (Sub-bituminous), Fuel

Current Fuels (Fuels, Feeds):
Coal (Bituminous), Fuel

Creating Submission Pairs

- You must have submission pairs that include:
 - Emissions and Fuels
 - Energy and Production
- This must be done at the facility level, and for each generating unit (if present)
- Without pairs, you will not be able to properly certify your report for verification

Example: Submission Pairs

- Note that there are pairs at the facility level and generating unit level (if present)

Facility Name Cement Plant Demonstration - PG
ARB ID 152535

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[Generating Units](#) [Devices](#) [Energy and Production](#) [Facility Documents](#) [Facility and Unit Submissions](#) [ARB Notifications](#) [Programs](#)

Facility and Unit Submissions

| | Submission ID | Name | Reporting Level | Submission Type | Reporting Year | Submission Status | Status Date |
|-----------------------|---------------------|---------------------------------|-----------------|-----------------------|----------------|----------------------------|-------------|
| <input type="radio"/> | 170 | Cement Plant Demonstration - PG | Facility | Emissions and Fuels | 2008 | Data Pending Certification | 01/20/2010 |
| <input type="radio"/> | 171 | Cement Plant Demonstration - PG | Facility | Energy and Production | 2008 | Preliminary Data | 06/17/2009 |
| <input type="radio"/> | 621 | Cogen for Cement Demo | Generating Unit | Emissions and Fuels | 2008 | Preliminary Data | 07/15/2009 |
| <input type="radio"/> | 691 | Cogen for Cement Demo | Generating Unit | Energy and Production | 2008 | Preliminary Data | 01/20/2010 |

2009 Emissions Reporting

- With all configuration complete, now ready for 2009 reporting

Reporting 2009 Data: Summary

- Check general facility information
- Check facility configuration information
 - Emitting Activities, Generating Units, Devices, Supplemental versus Summed data



Create 2009 data submissions

- Enter emissions, fuels, energy, and other 2009 data
- Perform QA checks and Certify data submissions
- Third-party verification required

Creating Your 2009 Submissions

- 2009 submissions based on 2008 facility set-up information
 - Use emitting activities, generating units, devices present from 2008
 - Modify set-up as needed prior to generating 2009 submissions
- Submissions are year-specific
- 2009 submissions will likely mirror 2008 submissions

Creating Submissions

- Go to “Facility and Unit Submissions” tab
- Click on Create New Submission
- Select 2009, reporting level, and type

Facility Details | Addresses | Geographic Location | Contacts | Associated Entity | Verification Bodies | Emitting Activities | **Facility and Unit Submissions** | ARB Notifications | Programs

Generating Units | Devices | Energy and Production | Facility Documents | **Facility and Unit Submissions** | ARB Notifications | Programs

Facility and Unit Submissions

| | Submission ID | Name | Reporting Level | Submission Type | Reporting Year | Submission Status | Status Date |
|-----------------------|---------------------|----------------------------|-----------------|-----------------------|----------------|-------------------|-------------|
| <input type="radio"/> | 188 | Cement Plant Practice - PG | Facility | Emissions and Fuels | 2008 | | |
| <input type="radio"/> | 604 | Cement Plant Practice - PG | Facility | Energy and Production | 2008 | | |
| <input type="radio"/> | 685 | Cement Plant Practice - PG | Facility | Emissions and Fuels | 2009 | | |
| <input type="radio"/> | 686 | Cement Plant Practice - PG | Facility | Energy and Production | 2009 | | |

[Create New Submission](#) | [Delete](#)

Create New Submission

Select the relevant Reporting Year and Submission Type from the dropdown menus. Click the Continue button to proceed to the new submission.

Facility

Facility Name: Cement Plant Demonstration - PG
Primary Reporting Sector: Cement Plant
ARB ID: 152535

Submission Characteristics

Reporting Year:

Reporting Period:

Reporting Level:

Submission Type:

[Continue](#)

Creating Submissions (option 2)

[Facility](#) | [Annual Reporting](#) | [Reports](#)
[Create New Submission](#) | [Certify or Unlock Annual Data](#)

Facility Information

Use this page to manage your facility's source inventory information.

The tabs below allow you to manage the following information: 1.) Facility Information, 2.) Emission Bodies, 7.) Emitting Activities, 8.) General Notifications.

For detailed instructions, please select...

| | |
|----------------------|---------------------|
| Facility Name | Cement Plant Demons |
| ARB ID | 152535 |

Create New Submission

[Facility](#) | [Annual Reporting](#) | [Reports](#)
Select Submission Details

Select the relevant Reporting Year, Reporting Level, and Submission Type. On the next page, you will choose a specific Power Emission Unit.

Reporting Year * 2009
Reporting Period 01/01/2009 - 12/31/2009
Reporting Level * Generating Unit
Submission Type * Emissions and Fuels

[Continue](#)

Select Generating Unit

Use this page to select a generating unit for which to report annual data. The generating unit is located. Next, highlight a row in the grid listing the generating units.

The Facilities grid contains only the facilities with which you are currently associated. The Generating Units grid contains only the units associated with the selected facility.

Reporting Year 2009
Submission Type Emissions and Fuels

Select Facility

| Facility Name | ARB ID | Primary Reporting Sector |
|---------------------------------|--------|--------------------------|
| Cement Plant Demonstration - PG | 152535 | Cement Plant |
| Cement Plant Practice - PG | 153535 | Cement Plant |

| Generating Unit Name | ARB ID | Unit Type | Total |
|-----------------------------|------------|-----------------------------|-------|
| Cogen for Cement Demo | 152535-001 | Cogeneration Primary Sector | 32 |
| Cement Plant Demo - Cogen 2 | 152535-002 | Cogeneration Primary Sector | 20 |

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■ Use Annual Reporting Menu

Adding 2009 Submissions

Before

| Facility Details | Addresses | Geographic Location | Contacts | Associated Entity | Verification Bodies | Emitting Activities |
|--------------------------------------|---------------------------------|-----------------------|-----------------------|-------------------------------|----------------------------|---------------------|
| Generating Units | Devices | Energy and Production | Facility Documents | Facility and Unit Submissions | ARB Notifications | Programs |
| Facility and Unit Submissions | | | | | | |
| Submission ID | Name | Reporting Level | Submission Type | Reporting Year | Submission Status | Status Date |
| 170 | Cement Plant Demonstration - PG | Facility | Emissions and Fuels | 2008 | Data Pending Certification | 01/20/2010 |
| 171 | Cement Plant Demonstration - PG | Facility | Energy and Production | 2008 | Preliminary Data | 06/17/2009 |
| 621 | Cogen for Cement Demo | Generating Unit | Emissions and Fuels | 2008 | Preliminary Data | 07/15/2009 |
| 691 | Cogen for Cement Demo | Generating Unit | Energy and Production | 2008 | Preliminary Data | 01/20/2010 |

After

| Facility Details | Addresses | Geographic Location | Contacts | Associated Entity | Verification Bodies | Emitting Activities |
|--------------------------------------|---------------------------------|-----------------------|-----------------------|-------------------------------|----------------------------|---------------------|
| Generating Units | Devices | Energy and Production | Facility Documents | Facility and Unit Submissions | ARB Notifications | Programs |
| Facility and Unit Submissions | | | | | | |
| Submission ID | Name | Reporting Level | Submission Type | Reporting Year | Submission Status | Status Date |
| 170 | Cement Plant Demonstration - PG | Facility | Emissions and Fuels | 2008 | Data Pending Certification | 01/20/2010 |
| 171 | Cement Plant Demonstration - PG | Facility | Energy and Production | 2008 | Preliminary Data | 06/17/2009 |
| 621 | Cogen for Cement Demo | Generating Unit | Emissions and Fuels | 2008 | Preliminary Data | 07/15/2009 |
| 691 | Cogen for Cement Demo | Generating Unit | Energy and Production | 2008 | Preliminary Data | 01/20/2010 |
| 692 | Cement Plant Demonstration - PG | Facility | Emissions and Fuels | 2009 | Preliminary Data | 01/20/2010 |
| 693 | Cement Plant Demonstration - PG | Facility | Energy and Production | 2009 | Preliminary Data | 01/20/2010 |
| 694 | Cogen for Cement Demo | Generating Unit | Emissions and Fuels | 2009 | Preliminary Data | 01/20/2010 |
| 695 | Cogen for Cement Demo | Generating Unit | Energy and Production | 2009 | Preliminary Data | 01/20/2010 |

Note addition of 2009 submissions, matching 2008 submissions.

Step 5

Enter 2009 Fuel Use and Emissions

- After 2009 submissions created, input 2009 data
 - Overall setup based on initial 2008 configuration
 - Fuels, emitting activities, generating units, etc., carry over from facility-level settings
- Enter 2009 fuel use and emissions data for all activities
- See step-by-step guides for refreshers
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>

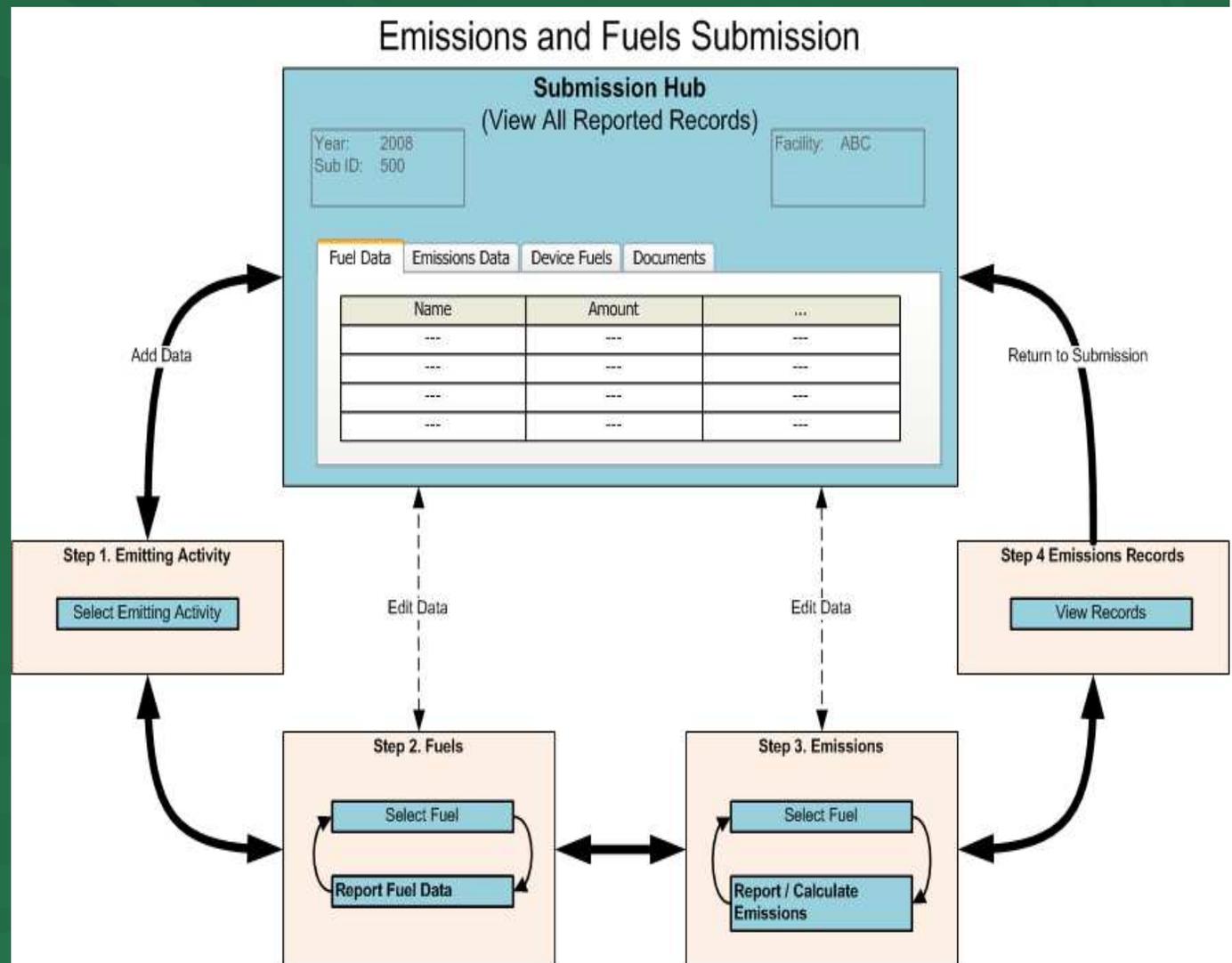
Step 5

Input 2009 Fuel Use and Emissions

- Select each emitting activity
- Select each fuel for emitting activity
- Input fuel use for each fuel
 - Input emissions calculation data (i.e., emission factors, HHV, carbon content)
- Select calculation method; input emissions data
- Repeat for each emitting activity until finished
- Keep track to ensure completion

Step 5: Fuel Use and Emissions Data Entry Cycle

- For each emitting activity, cycle through each fuel, and input fuel use and emissions data



Step 6

Report Non-Emissions Data

- Energy and Production
 - Includes electricity, heat, cooling purchased (i.e., indirect energy)
 - For electricity generating units and cogeneration, complete data shown in tool
- Enter energy use and select provider(s)

Step 7

QA and Certification of data

- Quality assurance checks help ensure complete reporting
- The quality assurance system provides Warning messages and Critical Errors
 - Critical Errors or Failures must be corrected before certifying data
 - “Warnings” should be evaluated to ensure that errors are not present that affect the completeness or accuracy of the submittal
- QA is run separately on each submission

Carefully Review Data Prior to Certification

- Run and review printed report
- Check emissions and other data for reasonableness
- Are all required units reported
- Are supplemental data flagged as “supplemental”?
- For cogeneration, is emissions distribution complete
- Are biogas or biomass emissions reported correctly? (i.e., as CO₂ (biomass) and not CO₂ (for fossil fuels))

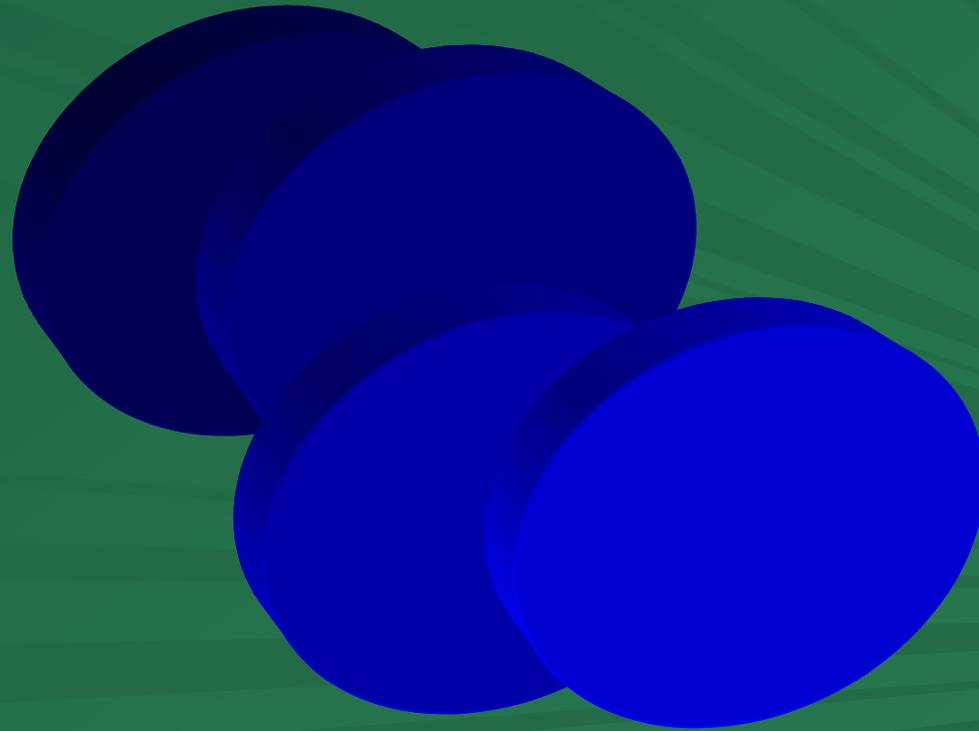
Step 7

QA and Certification of data

- After QA, then “Ready for Certification”
 - Clicking locks data and queues data for “Facility Manager” final Certification
- Only those designated as a “Facility Manager” for the facility may certify the report
 - Completing “Certification” indicates that data are complete and accurate
 - Upon Certification, data are locked and cannot be edited without unlocking data
 - This mechanism prevents editing of data during the verification process unless needed

Tool Demonstration

Demonstration of Creating New
Submissions for 2009



Questions and Comments

- For verbal comments, “Raise Hand” using Webinar so we can activate your line
- Or Type question in Webinar screen



GHG Reporting Tool

Updates and Tips

Focus on Submitting 2009 Data

- Update facility configuration if needed to report correctly for 2009
- Primary focus is on 2009 data
- 2009 reports must be accurate, complete, verified, and on time
- Correction to 2008 for gross errors

Claiming Confidential Data

- New: Assertion of confidential data must be made for each submission
 - No longer performed at facility level
- Claim must be designated by Facility or Entity Manager during certification process
- Provide description of confidential data (e.g., feedstock input, fuel use, emission factor, etc.)

Claiming Confidential Data

Report Certification

Important Notice: Public Disclosure of Submitted Information

All information provided to ARB will be part of a public record and subject to public disclosure unless the person submitting the information asserts a claim of confidentiality by selecting "Yes" from the drop-down box below. By selecting "Yes," you are asserting that your submission contains information that is trade secret or that it otherwise contains information that is not public information under California law. Selecting "Yes" does not prevent ARB from releasing some of the information that you are submitting without further notice to you; even with your claim of confidentiality, ARB will release emissions data (which are public under Government Code section 6254.7) and other categories of information that are clearly public records without notifying you. However, if you indicate your submission contains confidential information, ARB will not release potentially confidential information you are submitting without first following the procedures specified in title 17, California Code of Regulations, sections 91000 to 91022. These procedures provide safeguards against the release of confidential information, including an opportunity for the person submitting information under claim of confidentiality to justify the claim and obtain a decision from ARB as to confidential status prior to any public release of the information. By selecting "No," you are stating that your submission contains no confidential information and that ARB may publicly release any information you have submitted.

Must select Yes or No to Certify data

Do you claim that any of the information in your submission is confidential? *

Yes ▾

If yes, describe specific confidential data or data categories below.

The following data is deemed confidential ...

Enter details here if data claimed as confidential

Confidential data and other comments

By submitting my electronic signature via the Air Resources Board's greenhouse gas reporting tool, I hereby certify that this emissions report has been prepared in accordance with the GHG emissions mandatory reporting regulation at sections 95100-95133, title 17, California Code of Regulations, and that the statements and information contained in the emissions data report are true, accurate, and complete. As a User, I agree that documents submitted with electronic signatures, either scanned or using digital ink, or any other electronic format approved by ARB, will be considered valid for certification. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information.

Decision

▾

Enter password *

●●●●●●

Submit

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Submission Status

- As you report, the “Submission Status” can be used to track your progress

Facility Name Cement Plant Demonstration - PG
ARB ID 152535

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[Generating Units](#) [Devices](#) [Energy and Production](#) [Facility Documents](#) [Facility and Unit Submissions](#) [ARB N](#) [isions](#) [Programs](#)

Facility and Unit Submissions

| | Submission ID | Name | Reporting Level | Submission Type | Reporting Year | Submission Status | Status Date |
|-----------------------|---------------------|---------------------------------|-----------------|-----------------------|----------------|----------------------------|-------------|
| <input type="radio"/> | 170 | Cement Plant Demonstration - PG | Facility | Emissions and Fuels | 2008 | Data Pending Certification | 01/20/2010 |
| <input type="radio"/> | 171 | Cement Plant Demonstration - PG | Facility | Energy and Production | 2008 | Preliminary Data | 06/17/2009 |
| <input type="radio"/> | 621 | Cogen for Cement Demo | Generating Unit | Emissions and Fuels | 2008 | Preliminary Data | 07/15/2009 |
| <input type="radio"/> | 691 | Cogen for Cement Demo | Generating Unit | Energy and Production | 2008 | Preliminary Data | 01/20/2010 |



Submission Status Settings

- The "Submission Status" column (see previous slide) indicates the reporting progress and status for the submission
 - In certain status conditions the data are locked and cannot be edited.
- Preliminary Data
 - Data unlocked and can be edited by reporters and managers.
- Data Pending Certification
 - Data locked for manager review and certification. Manager can unlock data by changing status to Preliminary Data.
- Certified - Unverified Data
 - Data locked. Manager can unlock data by changing status to Preliminary Data.

Submission Status Settings

■ Verification Ready

- Data locked for verification. Status can be changed to Revisions Requested by Verifier or ARB.
- Status set by tool after all submission pairs have been Certified
- Will not be set if all pairs not created. Must be completed to perform verification.

■ Verified

- Data locked. Status can be changed to Revisions Requested by ARB only.

■ Revisions Requested

- Data locked. Manager can unlock data by changing status to Preliminary Data.

Tool Updates for Cement Plants

- Additional data input fields were added to capture the following:
 - Reporter calculated efficiency metrics
 - Additional efficiency metrics supporting data
 - Clinker & CKD characteristics

Cement Plants: Efficiency Metrics

- New data fields under the “cement efficiency metrics tab.”

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Facility Power Entity Annual Reporting Verification Bodies Verification People Reports Programs Help

Annual Energy and Production Submission

Use this page to report and review annual energy and production data.

The tabs below allow you to report the following data: 1.) Indirect Energy Use Data, 2.) Energy Production Data, 3.) Energy Sold or Provided Data, 4.) Steam Production Data, 5.) Cement Efficiency Metrics Data, 6.) Hydrogen Data, and 7.) Supporting Documentation.

You may add or remove reporting categories on the Facility Information page. The reporting categories selected on the Facility Information page, Energy and Production tab, will dictate which tabs display below on your Energy and Production submission.

Note:

- If reporting for a single generating unit, enter data again in your facility level submission.
- If reporting for multiple generating units, manually sum and enter data in your facility level submission.

| Submission Detail | | Facility | |
|-------------------|------------------|---------------|---------------------------|
| Submission ID | 625 | Facility Name | PQA Test Facility: Cement |
| Submission Status | Preliminary Data | ARB ID | 55566 |
| Reporting Year | 2008 | | |

Indirect Energy Use Energy Production Energy Provided or Sold Steam Production **Cement Efficiency Metrics** Fuel Delivery Data Natural Gas Data Supporting Documentation

Report Cement Efficiency Metrics Data

Efficiency Metrics 95110(e)

| | | |
|---|---------------------------------------|-------------|
| Operator Calculated: CO2 Emissions per metric ton of Cementitious Product * | <input type="text" value="0.920000"/> | metric tons |
| Operator Calculated: CO2 Emissions per metric ton of Clinker * | <input type="text" value="0.870000"/> | metric tons |

Cement Plants: Efficiency Metrics

- Enter the cementitious product and clinker efficiency metrics calculated for the report year.

Indirect Energy Use | Energy Production | Energy Provided or Sold | Steam Production | **Cement Efficiency Metrics** | Fuel Delivery Data | Natural Gas Data | S

Report Cement Efficiency Metrics Data

Efficiency Metrics 95110(e)

| | | |
|---|---------------------------------------|-------------|
| Operator Calculated: CO2 Emissions per metric ton of Cementitious Product * | <input type="text" value="0.920000"/> | metric tons |
| Operator Calculated: CO2 Emissions per metric ton of Clinker * | <input type="text" value="0.870000"/> | metric tons |

Efficiency Metrics 95110(e) Supporting Data

| | | |
|--|---|-------------|
| Operator Entered: Direct CO2 Emissions from cement manufacturing * | <input type="text" value="5555555.000000"/> | metric tons |
| Total Amount Clinker * | <input type="text" value="1500.000000"/> | metric tons |
| Amount Sold Directly * | <input type="text" value="500.000000"/> | metric tons |
| Amount Own Consumed * | <input type="text" value="500.000000"/> | metric tons |
| Amount Added to Stock * | <input type="text" value="500.000000"/> | metric tons |

Review Submission QA Checks

Other Efficiency Metrics Data

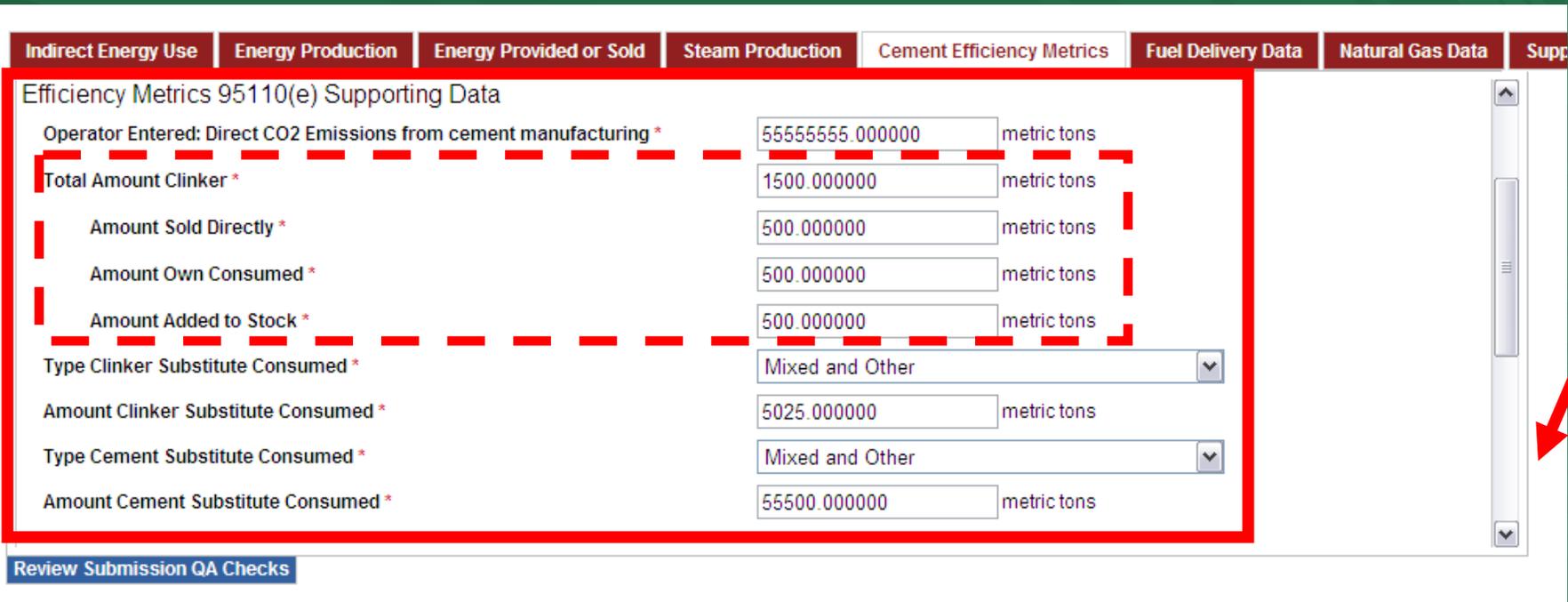
- Scroll down to view and enter all efficiency metrics supporting data for the report year.
- Total amount clinker = amount sold directly + amount own consumed + amount added to stock

Indirect Energy Use | Energy Production | Energy Provided or Sold | Steam Production | **Cement Efficiency Metrics** | Fuel Delivery Data | Natural Gas Data | Support

Efficiency Metrics 95110(e) Supporting Data

| | | |
|--|--|-------------|
| Operator Entered: Direct CO2 Emissions from cement manufacturing * | <input type="text" value="55555555.000000"/> | metric tons |
| Total Amount Clinker * | <input type="text" value="1500.000000"/> | metric tons |
| Amount Sold Directly * | <input type="text" value="500.000000"/> | metric tons |
| Amount Own Consumed * | <input type="text" value="500.000000"/> | metric tons |
| Amount Added to Stock * | <input type="text" value="500.000000"/> | metric tons |
| Type Clinker Substitute Consumed * | <input type="text" value="Mixed and Other"/> | |
| Amount Clinker Substitute Consumed * | <input type="text" value="5025.000000"/> | metric tons |
| Type Cement Substitute Consumed * | <input type="text" value="Mixed and Other"/> | |
| Amount Cement Substitute Consumed * | <input type="text" value="55500.000000"/> | metric tons |

[Review Submission QA Checks](#)



Clinker Characteristics & CKD

- Scroll down to view and enter clinker characteristics and cement kiln dust (CKD) data for the report year.
- If the CKD is recycled, then enter 0 for the plant specific CKD calcination rate and the amount CKD discarded fields.
- Remember to save your data before proceeding.

| Indirect Energy Use | Energy Production | Energy Provided or Sold | Steam Production | Cement Efficiency Metrics | Fuel Delivery Data | Natural Gas Data |
|--|-------------------|-------------------------|------------------|---------------------------|--------------------|------------------|
| Amount Cement substitute consumed | | | | 35500.000000 | metric tons | |
| Clinker Characteristics 95110(a)(2)(A)(1.)(b)-(e) | | | | | | |
| Lime (CaO) content of clinker * | | | | 63.00 | % | |
| Magnesium Oxide (MgO) content of clinker * | | | | 5.00 | % | |
| Non-carbonate CaO content of clinker * | | | | 0.00 | % | |
| Non-carbonate MgO content of clinker * | | | | 0.00 | % | |
| Cement Kiln Dust (CKD) Characteristics 95110(a)(2)(A)(2.)(a)-(b) | | | | | | |
| Plant Specific CKD calcination rate * | | | | 0.000000 | no unit | |
| Amount CKD discarded * | | | | 0.000000 | metric tons | |
| Save | | | | | | |
| Review Submission QA Checks | | | | | | |

Tips for Electricity Generators and Cogeneration Systems

- Use care when reporting emissions at the unit level and facility level
- Multiple submissions required for unit level reporting

Electricity Generators and Cogeneration Systems

Reporting emissions at the unit and facility level

- Aggregation of generating units only allowed when
 - Multiple units combust the same fuel type and
 - Individual units do not have metering or monitoring equipment
- Unit level reporting required when separate monitoring exists, not required to meet $\pm 5\%$ accuracy
- When unit level accuracy does not meet $\pm 5\%$, designate as supplemental
- Include emissions from unit sources designated as supplemental in facility level set-up
- Create facility level emitting activity for secondary sector to meet accuracy requirement, if needed

Electricity Generators and Cogeneration Systems

Additional QA routines added to check submission pairs

| Facility Details | Addresses | Geographic Location | Contacts | Associated Entity | Verification Bodies | Emitting Activities | Generating Units |
|-------------------------------|-----------------------|--------------------------|-------------------------------|-----------------------|---------------------|---------------------|------------------|
| Devices | Energy and Production | Facility Documents | Facility and Unit Submissions | ARB Notifications | | | |
| Facility and Unit Submissions | | | | | | | |
| | Submission ID | Name | Reporting Level | Submission Type | Reporting Year | Submission Status | Status Date |
| <input type="radio"/> | 28 | Dynegy Moss Landing, LLC | Facility | Emissions and Fuels | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 30 | Dynegy Moss Landing, LLC | Facility | Energy and Production | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 337 | Unit 1A | Generating Unit | Energy and Production | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 340 | Unit 2A | Generating Unit | Energy and Production | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 341 | Unit 3A | Generating Unit | Energy and Production | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 342 | Unit 4A | Generating Unit | Energy and Production | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 346 | Unit 6-1 | Generating Unit | Energy and Production | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 348 | Unit 7-1 | Generating Unit | Energy and Production | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 370 | Unit 1A | Generating Unit | Emissions and Fuels | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 1497 | Unit 2A | Generating Unit | Emissions and Fuels | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 1498 | Unit 6-1 | Generating Unit | Emissions and Fuels | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 1499 | Unit 7-1 | Generating Unit | Emissions and Fuels | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 1500 | Unit 3A | Generating Unit | Emissions and Fuels | 2008 | Verified | 12/22/2009 |
| <input type="radio"/> | 1501 | Unit 4A | Generating Unit | Emissions and Fuels | 2008 | Verified | 12/22/2009 |

Tips for Cogeneration

Explanatory text planned for Energy and Production Submissions

- Clarifies on-site electricity and thermal energy consumption for 3rd party operators
- Update expected in February

Tips for Cogeneration

Distributed Emissions Topping Cycle

- Three required *activity types* (see next slide)
- Cogeneration Total Activity Type may be summed or supplemental
- Must be consistent with facility level source inventory set-up
- Only Cogeneration Total *activity type* is associated with fuel(s)
- Distributed Emissions are not associated with fuels and always supplemental, only CO₂ from fossil fuel

Tips for Cogeneration

Distributed Emissions Topping Cycle

| Unit Operating Status | Cogeneration Information | Emitting Activities | | | |
|-----------------------|---|----------------------------|---|-----------|-------------------|
| Emitting Activities | | | | | |
| | Emitting Activity Name | Emitting Activity Category | Activity Type | Status | Aggregation Level |
| <input type="radio"/> | CHP System #1 - Total Stationary Combustion | Stationary Combustion | Cogeneration Total | Operating | Summed |
| <input type="radio"/> | CHP System #1 - Electricity Emissions | Stationary Combustion | Cogeneration to Electricity Generation | Operating | Supplemental |
| <input type="radio"/> | CHP System #1 - Thermal Energy Emissions | Stationary Combustion | Cogeneration to Thermal Energy Production | Operating | Supplemental |

Tips for Cogeneration

Distributed Emissions Bottoming Cycle

- Four required cogeneration *activity types* are always supplemental (see next slide)
- Avoids double counting at the facility level
- Only Cogeneration Total *activity type* is associated with fuel(s)
- Distributed Emissions are not associated with fuels

Tips for Cogeneration

Distributed Emissions Bottoming Cycle

| Unit Operating Status | Cogeneration Information | Emitting Activities | | | |
|-----------------------|--|----------------------------|--|-----------|-------------------|
| Emitting Activities | | | | | |
| | Emitting Activity Name | Emitting Activity Category | Activity Type | Status | Aggregation Level |
| <input type="radio"/> | Cogeneration Example-Bottoming Cycle | Stationary Combustion | Cogeneration Total | Operating | Supplemental |
| <input type="radio"/> | Cogeneration Example-Bottoming Cycle | Stationary Combustion | Cogeneration to Manufactured Product Outputs | Operating | Supplemental |
| <input type="radio"/> | Cogeneration Example-Bottoming Cycle | Stationary Combustion | Cogeneration to Thermal Energy Production | Operating | Supplemental |
| <input type="radio"/> | Cogeneration-Bottoming Cycle | Stationary Combustion | Cogeneration to Electricity Generation | Operating | Supplemental |

Retail Providers and Marketers

Retail Providers: Transactions Data Upload Improvement

- Wait to enter transactions data
- Revised template expected by March
- No changes in required information
- Data previously provided via two templates will be consolidated to support upload

Tips for Retail Providers and Marketers

Improvements in Data Upload

- Included additional QA checks
 - Critical warning when data upload fails – prevents certification
- Added SF₆ declaration for retail providers and marketers
- Allow decimals for net generation and nameplate capacity
- Expanded character limits for counterparty and supplier names

Tips for Retail Providers and Marketers- SF₆ Declaration

Entity Details | Addresses | Power Entity Contacts | Facilities | Verification Bodies | Emitting Activities | Entity Documents

Entity Submissions | ARB Notifications | Programs

Power Entity Details

| | |
|-------------------------------------|--|
| Power Entity Name * | <input type="text" value="Pcarrol3"/> |
| ARB-ID * | <input type="text" value="400003"/> |
| Access Code | <input type="text" value="PB3651"/> |
| Primary Entity Type * | <input type="text" value="Non-Multijurisdictional Retail Provider"/> |
| Secondary Entity Type | <input type="text"/> |
| Reportable Sources of SF6 Emissions | <input type="text"/> |
| NAICS (First 2 digits) | <input type="text" value="22 - Utilities"/> |
| NAICS | <input type="text" value="2211 - Electric Power Generation, Transmission and Distribution"/> |
| Power Entity URL | <input type="text"/> |
| Description | <input type="text"/> |

When certifying each submission of a GHG data report, an entity manager will be required to indicate whether any of the data are claimed as confidential, and if so what specific data or categories of data are claimed as confidential.

Tips for Retail Providers and Marketers

Specified Transactions Reporting and Additional Requirements for Retail Providers

New Web Posting of ARB Facility ID#s Planned for February

- 400000 Series – Facilities in CA below the reporting threshold. Includes fossil fuel, biomass-derived fuel, and geothermal facilities.
- 500000 Series – Hydroelectric facilities
- 600000 Series – Nuclear facilities
- 700000 Series – Solar facilities
- 800000 Series – Wind facilities
- 900000 Series – Out-of-state facilities that do not report to ARB. Includes fossil fuel, biomass-derived fuel, and geothermal facilities.

- 100000 Series – In-state or out-of-state facilities operated by retail providers that exceed the reporting threshold. Facilities listed in public summary report at <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-reports.htm> .

Tips for Retail Providers and Marketers

Procedure when facility is not listed

- Email ARB at ghgreport@arb.ca.gov
Subject: Request electricity generating facility ARB ID#
- Provide facility name, EIA #, operator name, physical address, type of technology (hydro, nuclear, etc.), type of fuel (natural gas, coal, co-fired, etc.)
- If renewable facility and EIA number not provided, provide facility name and CEC RPS ID# as listed by CEC in *California's RPS List of Facilities* dated Dec. 23, 2009 and provided at http://www.energy.ca.gov/portfolio/documents/List_RPS_CERT.pdf

Tips for Retail Providers and Marketers

Common Reporting Errors

- *Marketers and Retail Providers* – renewable energy transactions are not reported
- *Retail Providers* – wholesale transactions do not balance with retail sales
- *Retail Providers* – net generation is not reported for all operated, fully-owned, or partially owned facilities, including hydro, nuclear, solar, and wind

Tips for Retail Providers and Marketers—

*Retail Providers—wholesale transactions
expected to balance with retail sales*

Retail Sales =

Imports

– Exports

+ CA Wholesale Purchases/Takes

– CA Wholesale Sales

Questions and Comments

- For verbal comments, “Raise Hand” using Webinar so we can activate your line
- Or Type question in Webinar screen



ARB Contacts

General Email Address for GHG
Reporting Questions
ghgreport@arb.ca.gov

Richard Bode – Chief
Emissions Inventory Branch
rbode@arb.ca.gov
(916) 323-8413

Doug Thompson – Manager
Climate Change Reporting Section
dthompson@arb.ca.gov
(916) 322-7062

GHG Mandatory Reporting Website
[http://www.arb.ca.gov/cc/reporting/
ghg-rep/ghg-rep.htm](http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm)



Staff Contacts

General Reporting & GSCs, Patrick Gaffney

pgaffney@arb.ca.gov (916) 322-7303

Cogeneration, Renée Lawver

rlawver@arb.ca.gov (916) 323-0296

Cement, Michael Gabor

mgabor@arb.ca.gov (916) 324-1847

Refineries & Hydrogen Plants, Byard Mosher

bmosher@arb.ca.gov (916) 323-1185

Electric Power Sector, Renée Lawver

rlawver@arb.ca.gov (916) 323-0296

Verification Manager, Rajinder Sahota

rsahota@arb.ca.gov (916) 323-8503





Coming Next:

**Preparing for
Verification**