Facility Name:
University of California, Santa Barbara

Facility ARB ID: 104372
Facility Reporting Year: 2013

Certification Statement:
The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Representatives
Designated Representative: Jodi Woods

Facility Location
Physical Address: University of California, Santa Barbara
City: Santa Barbara
State / Province: CA
ZIP / Postal Code: 93106
Country:
Latitude: 34.414364
Longitude: -119.845472
County: SANTA BARBARA
Air Basin: SOUTH CENTRAL COAST
District: SANTA BARBARA COUNTY APCD

Mailing Address: UCSB EH&S Bldg 565
City: Santa Barbara
State / Province: CA
ZIP / Postal Code: 93106-5132
Country:

Payment Information (required if subject to AB 32 Cost of Implementation Fee Regulation)
Responsible Party for Payment: UCSB
Responsible Party Email: jodi.woods@ehs.ucsb.edu
Responsible Party Phone: 805-893-7014
Billing Address: UCSB EHS Bldg 565
City: Santa Barbara
State / Province: CA
ZIP / Postal Code: 93106-5132
Country:

Owners / Operators
Name: UCSB

GHG Quantity
CO2 equivalent emissions (excluding biogenic) from subpart C - AA: 20,409.997 Metric Tons
CO2 equivalent quantity from supplier categories, including biogenic (subparts MM - PP): 0 Metric Tons
Exempt Biogenic CO2 emissions from subpart C - AA: 0 Metric Tons
CO2 equivalent emissions from electric power entities:
Covered CO2 equivalent emissions: 20,410 Metric Tons
De Minimis CO2 equivalent emissions: 0 Metric Tons
Maximum allowable De Minimis emissions: 612.3 Metric Tons

General Facility Reporting Information

NAICS Codes
Primary:
611310  (Colleges, Universities, and Professional Schools)
Second Primary:
Additional:

U.S. Parent Companies
Parent Company Name: The Regents of the University of California
Address: 1111 Franklin St., 12th Floor, Oakland, CA 94607
Percentage of Ownership Interest: 100%

GHG Report Start Date: 2013-01-01
GHG Report End Date: 2013-12-31
Explanation of any calculation methodology changes during the reporting year:

EPA e-GGRT Facility IDs
Full or Abbreviated GHG Report: Abbreviated
Company or Entity qualifies for Small Business Status: No
Confidential Data and Other Comments:

Electricity Purchases/Acquisitions for Reporting Facilities (95104(d))
Electricity Provider's Name: Southern California Edison (SCE)
Provider's ARB ID: 3005
Purchases/Acquisitions (MWh): 92,908.921

Natural Gas Purchases/Acquisitions for Reporting Facilities [95115(k), 95103(a)(1)]
Natural Gas Provider Name: Southern California Gas Company (SCG)
Provider's ARB ID: 5002
Customer Number: 117-316-7000 3
Purchases/Acquisitions (MMBtu): 384,557

Increases and Decreases in Facility Emissions [95104(f)]:

Have facility emissions increased or decreased more than five percent in relation to the previous data year?  Yes

Change in production: No

Changes in facility operations in order to comply with:

- The cap-and-trade regulation: No
- Other air pollution regulations: No
- Other regulations, not related to air pollution or greenhouse gases: No

Changes in efficiency due to:

- Process or material changes: Yes
- The addition of control equipment: No
- Other efficiency measures: Yes

Other reason(s) for increase or decrease: No

Provide a narrative description of how each reason identified in section 95104(f)(2) caused the increase or decrease in emissions. Include in this description any changes in your air permit status:

The biggest factor in the GHG emissions decline from 2012 to 2013 was the weather; winter 2013 was much milder than Winter 2012. Because the overwhelming majority of UCSB's stationary emissions result from (combusting) heating equipment, the milder weather sufficiently explains a drop in GHG emissions of 5.56% between 2012 and 2013.

Note: This section is not subject to the third-party verification requirements.

Electricity Generation

Facility has the capacity to generate electricity: No

Reported emissions include emissions from a cogeneration/bigeneration unit: No

Parasitic Steam Use: Generated thermal energy used for supporting power production (excluding steam used directly for generating electricity) [95112(a)(5)(B)]:

Generated thermal energy for on-site industrial applications not related to electricity generation [95112(a)(5)(C)]:
Description of the excluded data and an estimated magnitude of the excluded product(s) using best available methods [95103(l)]:

Subpart C: General Stationary Fuel Combustion

Gas Information Details

<table>
<thead>
<tr>
<th>Gas Name</th>
<th>Gas Quantity (Metric Tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methane</td>
<td>0.3846</td>
</tr>
<tr>
<td>Nitrous Oxide</td>
<td>0.0385</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>20,390</td>
</tr>
<tr>
<td>Exempt Biogenic Carbon dioxide</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Covered CO2e Emissions: 20,410 (Metric Tons)

Emissions shown above that are claimed as De Minimis (CO2e): 0 Metric Tons

Unit Details

Unit Name: CP-Dev 6899 El Colegio
Configuration Type: Common Pipe
Unit Type: OCS (Other combustion source)
Unit Description: Hot water heaters

Common Pipe Details
Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr
Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

Electricity Generation Unit Information
Does this configuration have the capacity to generate electricity? No

Emission Details: Configuration-Level Summary (User entered values)
Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

Fuel-Specific Emissions Information
Fuel: Natural Gas - Natural Gas
Calculation Methodology:
Tier 1 (Equation C-1a, natural gas billing in therms)
Methodology Start Date: 2013-01-01
Methodology End Date: 2013-12-31

Fuel Emission Details
Total CO2 emissions: 34.0176 Metric Tons
Total CH4 emissions: 0.0006 Metric Tons
Total N2O emissions: 0.0001 Metric Tons
Total CH4 emissions CO2e: 0.0135 Metric Tons
Total N2O emissions CO2e: 0.0199 Metric Tons

**Equation Inputs**

- Annual Natural Gas Usage: 6,416 therms
- Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu
- Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
- Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
- Annual Volume of Fuel Combusted: 641,446 scf

**Unit Name:**
CP-Dev 699 Storke

**Configuration Type:**
Common Pipe

**Unit Type:**
OCS (Other combustion source)

**Unit Description:**
Hot water heaters

**Common Pipe Details**

- Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr
- Type of Emission Unit for this Group: Other (none of the above)

**Electricity Generation Unit Information**

- Does this configuration have the capacity to generate electricity?: No

**Emission Details: Configuration-Level Summary (User entered values)**

- Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information**

**Fuel:** Natural Gas - Natural Gas

- Calculation Methodology:
  Tier 1 (Equation C-1a, natural gas billing in therms)

- Methodology Start Date: 2013-01-01
- Methodology End Date: 2013-12-31

**Fuel Emission Details**

- Total CO2 emissions: 92.6737 Metric Tons
- Total CH4 emissions: 0.0017 Metric Tons
- Total N2O emissions: 0.0002 Metric Tons
- Total CH4 emissions CO2e: 0.0367 Metric Tons
- Total N2O emissions CO2e: 0.0542 Metric Tons

**Equation Inputs**

- Annual Natural Gas Usage: 17,479 therms
- Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu
- Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
- Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
- Annual Volume of Fuel Combusted: 1,747,482 scf
### Unit Name: CP-HRS El Dorado
- **Configuration Type:** Common Pipe
- **Unit Type:** OCS (Other combustion source)
- **Unit Description:** Hot water heaters

**Common Pipe Details**
- **Maximum Rated Heat Input Capacity:** 0.04 mmBtu/hr
- **Type of Emission Unit for this Group:** Other (none of the above)

**Electricity Generation Unit Information**
- **Does this configuration have the capacity to generate electricity?** No

**Emission Details: Configuration-Level Summary (User entered values)**
- Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information**
- **Fuel:** Natural Gas - Natural Gas

**Calculation Methodology:**
- Tier 1 (Equation C-1a, natural gas billing in therms)

**Methodology Start Date:** 2013-01-01
**Methodology End Date:** 2013-12-31

**Fuel Emission Details**
- **Total CO2 emissions:** 117.0788 Metric Tons
- **Total CH4 emissions:** 0.0022 Metric Tons
- **Total N2O emissions:** 0.0002 Metric Tons
- **Total CH4 emissions CO2e:** 0.0464 Metric Tons
- **Total N2O emissions CO2e:** 0.0685 Metric Tons

**Equation Inputs**
- **Annual Natural Gas Usage:** 22,082 therms
- **Fuel Specific CO2 Emissions Factor:** 53.02 kg CO2/MMBtu
- **Fuel Specific CH4 Emissions Factor:** 0.001 kg CH4/MMBtu
- **Fuel Specific N2O Emissions Factor:** 0.0001 kg N2O/MMBtu
- **Annual Volume of Fuel Combusted:** 2,207,672 scf

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### Unit Name: CP-HRS Santa Catalina
- **Configuration Type:** Common Pipe
- **Unit Type:** OCS (Other combustion source)
- **Unit Description:** Hot water heaters

**Common Pipe Details**
- **Maximum Rated Heat Input Capacity:** 0.04 mmBtu/hr
- **Type of Emission Unit for this Group:** Other (none of the above)

---
Electricity Generation Unit Information
Does this configuration have the capacity to generate electricity? No

Emission Details: Configuration-Level Summary (User entered values)
Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

Fuel-Specific Emissions Information
Fuel: Natural Gas - Natural Gas
Calculation Methodology:
Tier 1 (Equation C-1a, natural gas billing in therms)
Methodology Start Date: 2013-01-01
Methodology End Date: 2013-12-31

Fuel Emission Details
Total CO2 emissions: 684.6048 Metric Tons
Total CH4 emissions: 0.0129 Metric Tons
Total N2O emissions: 0.0013 Metric Tons
Total CH4 emissions CO2e: 0.2712 Metric Tons
Total N2O emissions CO2e: 0.4003 Metric Tons

Equation Inputs
Annual Natural Gas Usage: 129,122 therms
Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted: 12,909,113 scf

Unit Name: CP-HRS Santa Ynez
Configuration Type: Common Pipe
Unit Type: OCS (Other combustion source)
Unit Description: Hot water heaters

Common Pipe Details
Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr
Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

Electricity Generation Unit Information
Does this configuration have the capacity to generate electricity? No

Emission Details: Configuration-Level Summary (User entered values)
Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

Fuel-Specific Emissions Information
## Fuel: Natural Gas - Natural Gas

**Calculation Methodology:**
- Tier 1 (Equation C-1a, natural gas billing in therms)

**Methodology Start Date:** 2013-01-01  
**Methodology End Date:** 2013-12-31

### Fuel Emission Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Metric Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total CO2 emissions</td>
<td>403.6625</td>
</tr>
<tr>
<td>Total CH4 emissions</td>
<td>0.0076</td>
</tr>
<tr>
<td>Total N2O emissions</td>
<td>0.0008</td>
</tr>
<tr>
<td>Total CH4 emissions CO2e</td>
<td>0.1599</td>
</tr>
<tr>
<td>Total N2O emissions CO2e</td>
<td>0.236</td>
</tr>
</tbody>
</table>

**Annual Natural Gas Usage:** 76,134 therms

**Fuel Specific CO2 Emissions Factor:** 53.02 kg CO2/MMBtu

**Fuel Specific CH4 Emissions Factor:** 0.001 kg CH4/MMBtu

**Fuel Specific N2O Emissions Factor:** 0.0001 kg N2O/MMBtu

**Annual Volume of Fuel Combusted:** 7,611,580 scf

### Equation Inputs

- **Annual Natural Gas Usage:** 76,134 therms
- **Fuel Specific CO2 Emissions Factor:** 53.02 kg CO2/MMBtu
- **Fuel Specific CH4 Emissions Factor:** 0.001 kg CH4/MMBtu
- **Fuel Specific N2O Emissions Factor:** 0.0001 kg N2O/MMBtu
- **Annual Volume of Fuel Combusted:** 7,611,580 scf

### Unit Name:
- **CP-HRS Storke**

**Configuration Type:** Common Pipe

**Unit Type:** OCS (Other combustion source)

**Unit Description:** Hot water heaters

### Common Pipe Details

- **Maximum Rated Heat Input:** 0.04 mmBtu/hr
- **Type of Emission Unit for this Group:** Other (none of the above)

### Electricity Generation Unit Information

- **Does this configuration have the capacity to generate electricity?** No

### Emission Details: Configuration-Level Summary (User entered values)

- **Total exempt annual biogenic CO2 mass emissions:** 0 metric tons

### Fuel-Specific Emissions Information

**Fuel:** Natural Gas - Natural Gas

**Calculation Methodology:**
- Tier 1 (Equation C-1a, natural gas billing in therms)

**Methodology Start Date:** 2013-01-01  
**Methodology End Date:** 2013-12-31

### Fuel Emission Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Metric Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total CO2 emissions</td>
<td>797.8874</td>
</tr>
<tr>
<td>Total CH4 emissions</td>
<td>0.015</td>
</tr>
<tr>
<td>Total N2O emissions</td>
<td>0.0015</td>
</tr>
</tbody>
</table>
Total CH4 emissions CO2e: 0.316 Metric Tons
Total N2O emissions CO2e: 0.4665 Metric Tons

Equation Inputs
- Annual Natural Gas Usage: 150,488 therms
- Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu
- Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
- Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
- Annual Volume of Fuel Combusted: 15,045,203 scf

Unit Name: CP-HRS West Campus
- Configuration Type: Common Pipe
- Unit Type: OCS (Other combustion source)
- Unit Description: Hot water heaters

Common Pipe Details
- Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr
- Type of Emission Unit for this Group: Other (none of the above)

Electricity Generation Unit Information
- Does this configuration have the capacity to generate electricity? No

Emission Details: Configuration-Level Summary (User entered values)
- Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

Fuel-Specific Emissions Information
- Fuel: Natural Gas - Natural Gas

  Calculation Methodology: Tier 1 (Equation C-1a, natural gas billing in therms)
  - Methodology Start Date: 2013-01-01
  - Methodology End Date: 2013-12-31

  Fuel Emission Details
  - Total CO2 emissions: 619.157 Metric Tons
  - Total CH4 emissions: 0.0117 Metric Tons
  - Total N2O emissions: 0.0012 Metric Tons
  - Total CH4 emissions CO2e: 0.2452 Metric Tons
  - Total N2O emissions CO2e: 0.362 Metric Tons

  Equation Inputs
  - Annual Natural Gas Usage: 116,778 therms
  - Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu
  - Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
  - Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
  - Annual Volume of Fuel Combusted: 11,675,009 scf
Unit Name: CP-HRS Westgate
Configuration Type: Common Pipe
Unit Type: OCS (Other combustion source)
Unit Description: Hot water heaters

Common Pipe Details
Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr
Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

Electricity Generation Unit Information
Does this configuration have the capacity to generate electricity? No

Emission Details: Configuration-Level Summary (User entered values)
Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

Fuel-Specific Emissions Information
Fuel: Natural Gas - Natural Gas
Calculation Methodology:
Tier 1 (Equation C-1a, natural gas billing in therms)

Methodology Start Date: 2013-01-01
Methodology End Date: 2013-12-31

Fuel Emission Details
Total CO2 emissions: 54.3084 Metric Tons
Total CH4 emissions: 0.001 Metric Tons
Total N2O emissions: 0.0001 Metric Tons
Total CH4 emissions CO2e: 0.0215 Metric Tons
Total N2O emissions CO2e: 0.0318 Metric Tons

Equation Inputs
Annual Natural Gas Usage: 10,243 therms
Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted: 1,024,055 scf

Unit Name: CP-Main Campus
Configuration Type: Common Pipe
Unit Type: OCS (Other combustion source)
Unit Description: Boilers

Common Pipe Details
Maximum Rated Heat Input Capacity: 8.50 mmBtu/hr
Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Boiler
Electricity Generation Unit Information
Does this configuration have the capacity to generate electricity? No

Emission Details: Configuration-Level Summary (User entered values)
Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

Fuel-Specific Emissions Information
Fuel: Natural Gas - Natural Gas
Calculation Methodology:
Tier 1 (Equation C-1a, natural gas billing in therms)
Methodology Start Date: 2013-01-01
Methodology End Date: 2013-12-31

Fuel Emission Details
Total CO2 emissions: 17,560.9027 Metric Tons
Total CH4 emissions: 0.3312 Metric Tons
Total N2O emissions: 0.0331 Metric Tons
Total CH4 emissions CO2e: 6.9555 Metric Tons
Total N2O emissions CO2e: 10.2676 Metric Tons

Equation Inputs
Annual Natural Gas Usage: 3,312,128 therms
Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted: 331,133,640 scf

Unit Name: CP-Off Camp Embarcadero
Configuration Type: Common Pipe
Unit Type: OCS (Other combustion source)
Unit Description: Hot water heaters

Common Pipe Details
Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr
Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

Electricity Generation Unit Information
Does this configuration have the capacity to generate electricity? No

Emission Details: Configuration-Level Summary (User entered values)
Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

Fuel-Specific Emissions Information
Fuel: Natural Gas - Natural Gas

Calculation Methodology:
Tier 1 (Equation C-1a, natural gas billing in therms)

Methodology Start Date: 2013-01-01
Methodology End Date: 2013-12-31

Fuel Emission Details
Total CO2 emissions: 14.6123 Metric Tons
Total CH4 emissions: 0.0003 Metric Tons
Total N2O emissions: 0 Metric Tons
Total CH4 emissions CO2e: 0.0058 Metric Tons
Total N2O emissions CO2e: 0.0085 Metric Tons

Equation Inputs
Annual Natural Gas Usage: 2,756 therms
Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted: 275,534 scf

Unit Name: CP-Off Camp IV Theater
Configuration Type: Common Pipe
Unit Type: OCS (Other combustion source)
Unit Description: Hot water heaters

Common Pipe Details
Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr
Type of Emission Unit for this Group: Other (none of the above)
[Note: EGU/EGS must always be separated from other unit types]:

Electricity Generation Unit Information
Does this configuration have the capacity to generate electricity? No

Emission Details: Configuration-Level Summary (User entered values)
Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons):
0

Fuel-Specific Emissions Information
Fuel: Natural Gas - Natural Gas

Calculation Methodology:
Tier 1 (Equation C-1a, natural gas billing in therms)

Methodology Start Date: 2013-01-01
Methodology End Date: 2013-12-31

Fuel Emission Details
Total CO2 emissions: 10.3071 Metric Tons
Total CH4 emissions: 0.0002 Metric Tons
Total N2O emissions: 0 Metric Tons
Total CH4 emissions CO2e: 0.0041 Metric Tons
Total N2O emissions CO2e: 0.006 Metric Tons

Equation Inputs
Annual Natural Gas Usage: 1,944 therms
Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MBtu
Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted: 194,353 scf

Time And Date Report Generated: 05/29/2014 15:04