# READ ME file for the 2008 Platform Sources Gulfwide Access File

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## WHAT IS PROVIDED HERE?

The platform emission inventory file developed for the 2008 Gulfwide Emission Inventory Study is provided for review and use by BOEM, air quality modelers, State and local agencies, and industry. This READ ME file provides important information integral to your use of the file.

## ACRONYMS

| | |
|---|---|
| BOEM | Bureau of Ocean Energy Management, Regulation, and Enforcement |
| CE | Control Efficiency Access Table |
| CH4 | Methane |
| CO | Carbon Monoxide |
| CO2 | Carbon Dioxide |
| CO2E | Carbon Dioxide Equivalent |
| EM | Emissions Access Table |
| EP | Emission Process Access Table |
| EPA | Environmental Protection Agency |
| ER | Emission Release Point Access Table |
| EU | Emission Unit Access Table |
| ID | Identification |
| NAICS | North American Industry Classification System |
| NEI | National Emissions Inventory |
| NIF | NEI Input Format |
| N2O | Nitrous Oxide |
| NOX | Nitrogen Oxides |
| PCT | Percent |
| PE | Emission Period Access Table |
| PM10 | Particulate Matter 10 |
| PM2.5 | Particulate Matter 2.5 |
| SI | Site Access Table |
| SIC | Standard Industrial Classification |
| SCC | Source Classification Code |
| SO2 | Sulfur Dioxide |
| TR | Transmittal Access Table |
| VOC | Volatile Organic Compounds |

## INTRODUCTION

The 2008 Gulfwide emissions inventory for platform sources is a comprehensive inventory covering criteria pollutants and greenhouse gases. The Gulfwide Inventory was developed by Eastern Research Group, Inc. (ERG), in Morrisville, North Carolina.

The scope of the 2008 Gulfwide Inventory effort was to compile 2008 base year activity data for all active platforms in Gulf of Mexico on the Outer Continental Shelf (OCS).

## WHAT INVENTORY DATA FILE IS PROVIDED?

This file is provided in Access 2003. The zipped file contains an Access database with eight record types, or tables, containing platform and emissions data.

## HOW IS THE DATA FILE ORGANIZED?

ERG has used a structure similar to that of the U.S. Environmental Protection Agency's National Emissions Inventory (NEI) database to compile the Gulfwide Inventory platform file. The specific data structure used for the 2008 Gulfwide Inventory is based on NEI Input Format (NIF) Version 3.0 for point sources. Further information about the NIF can be found at *http://www.epa.gov/ttn/chief/nif/index.html#ver3*.

Tables 1a and 1b summarize the structure of the NIF platform file provided.

## WHAT SOFTWARE DO I NEED TO USE THE DATA FILE?

The NEI files are provided in Microsoft Access 2003. MS-Access provides a reliable, commonly used platform which can be used to view and link the tables.

## HOW CAN I REVIEW OR USE THE FILE?

BOEM, air quality modelers, State and local agencies, and industry representatives can review and use this file in a number of ways. Emission estimates can be summarized by operator, platform, block, area**,** pollutant, and equipment type. Estimates can also be assessed for specific geographic areas in the Gulf of Mexico on the OCS by mapping the latitude/longitude coordinates to the area of interest.

# Table 1a. Summary of Platform NIF Records[a]

| Transmittal | Site | Emission Unit | Emission Release Point |
|---|---|---|---|
| Record Type = TR | Record Type =SI | Record Type= EU | Record Type= ER |
| **State County FIPS = BOEM Area and BOEM Block** | **State County FIPs = BOEM Area and BOEM Block** | **State County FIPs = BOEM Area and BOEM Block** | **State County FIPs = BOEM Area and BOEM Block** |
| Organization Name = BOEM; BOEM Area and BOEM Block Descriptions (e.g., AC025 = Area = AC, Block = 025) | **State Facility Identifier = BOEM Complex ID and BOEM Structure ID** | **State Facility Identifier = BOEM Complex ID and BOEM Structure ID** | **State Facility Identifier = BOEM Complex ID and BOEM Structure ID** |
| Transaction Type = 00 | Facility Registry Identifier = BOEM Lease Number | **Emission Unit ID = combination of equipment type abbreviation and equipment ID assigned by BOEM** | **Emission Release Point ID = combination of equipment type abbreviation and emission release point ID assigned by BOEM** |
| Inventory Year = 2005 | SIC = 1382 | SIC Unit Level = 1382 | Emission Release Point Type = stack (02) or fugitive (01) |
| Inventory Type = CRIT | NAICS = 211111 | NAICS Unit Level = 211111 | Stack Height = stack height (feet) |
| Transaction Creation Date | Facility Name = BOEM Company Name, BOEM ID, BOEM Complex ID, and BOEM Structure ID | Emission Unit Description = combination of equipment type and equipment ID assigned by BOEM operator | Stack Diameter = inner diameter of stack (feet) |
| Incremental Submission Number | Site Description = BOEM Area, BOEM Block, and BOEM Name | Submittal Flag = A | Exit Gas Temperature = temperature of the gaseous emissions (°F) |
| | Location Address (mailing address for contact) | | |
| Contact Person = BOEM COR | City (mailing address for contact) | **Tribal Code = 000** | Exit Gas Velocity = exit velocity of emissions in at the exit outlet (ft/sec) |
| Contact Phone = BOEM COR phone # | State (mailing address for contact) | | Exit Gas Flow Rate = stack gas flow rate ($ft^3$/sec) |
| Telephone Number Type = Office | Zip Code (mailing address for contact) | | X-Coordinate = platform longitude (decimal degrees) |
| Electronic Address = BOEM COR E-mail address | Country = USA | | Y-Coordinate = platform latitude (decimal degrees) |
| Electronic Address Type = email | Submittal Flag = A | | XY Coordinate Type = LATLON |
| Source Type = Point | **Tribal Code = 000** | | Emission Release Point Description = stack or fugitive |
| | | | Release Height = equipment elevation for fugitives |

## Table 1a. Summary of Platform NIF Records[a] (Continued)

| Transmittal | Site | Emission Unit | Emission Release Point |
|---|---|---|---|
| | | | Fugitive Dimension Units = FT |
| | | | Emission Release Point Description = stack or fugitive |
| Affiliation Type = Report Certifier | | | Submittal Flag = A |
| Format Version = 3 | | | Horizontal Collection Method = 027<br>Horizontal Reference Datum Code = 001 |
| **Tribal Code = 000** | | | Reference Point Code = 102 |
| | | | Coordinate Data Source Code = 084 |
| | | | **Tribal Code = 000** |

## Table 1b. Summary of Platform NIF Records[a] (Continued)

| Emission Process | Control Equipment | Emission Period | Emission |
|---|---|---|---|
| Record Type = EP | Record Type = CE | Record Type= PE | Record Type= EM |
| **State County FIPs = BOEM Area and BOEM Block** | **State County FIPs = BOEM Area and BOEM Block** | **State County FIPs = BOEM Area and BOEM Block** | **State County FIPs = BOEM Area and BOEM Block** |
| **State Facility Identifier = BOEM Complex ID and BOEM Structure ID** | **State Facility Identifier = BOEM Complex ID and BOEM Structure ID** | **State Facility Identifier = BOEM Complex ID and BOEM Structure ID** | **State Facility Identifier = BOEM Complex ID and BOEM Structure ID** |
| **Emission Unit ID = combination of equipment type abbreviation and equipment ID assigned by BOEM** | **Emission Unit ID = combination of equipment type abbreviation and equipment ID assigned by BOEM** | **Emission Unit ID = combination of equipment type abbreviation and equipment ID assigned by BOEM** | **Emission Unit ID = combination of equipment type abbreviation and equipment ID assigned by BOEM** |
| **Emission Release Point ID = combination of equipment type abbreviation and emission release point ID assigned by BOEM** | **Emission Process ID = unique process for the emission unit** | **Emission Process ID = unique process for the emission unit** | **Emission Process ID = unique process for the emission unit** |
| **Emission Process ID = unique process for the emission unit** | **Pollutant Code = EPA pollutant code** | **Start Date = start date in which reported emissions occur** | **Pollutant Code = EPA pollutant code** |
| SCC = EPA Source Category Code | Primary PCT Control Efficiency = control efficiency of the primary control device | **End Date = end date in which reported emissions occur** | **Emission Release Point ID = combination of equipment type abbreviation and emission release point ID assigned by BOEM** |
| Emission Process Description = description of the emission process | Primary Device Type = EPA Control device code | Actual Throughput = Numeric value of process activity | **Start Date = start date in which reported emissions occur** |
| Heat Content = heat content of the fuel | Control System Description = Control description information | Throughput Units = Throughput unit of measure description | **End Date = end date in which reported emissions occur** |
| Sulfur Content = sulfur content of a fuel (mass percent) | Submittal Flag = A | Material = EPA Material code that was processed | Emission Numeric Value = actual emissions per period |
| Submittal Flag = A | **Tribal Code = 000** | Period Hours Per Day = Actual number of hours per day | Emission Unit Numerator = TON |
| **Tribal Code = 000** | | Period Hours Per Day = Actual number of hours per period | Emission Type = 30 (entire period) |

## Table 1b. Summary of Platform NIF Records[a] (Continued)

| Emission Process | Control Equipment | Emission Period | Emission |
|---|---|---|---|
| | | Submittal Flag = A | Factor Numeric Value = emission factor value |
| | | **Tribal Code = 000** | Factor Unit Numerator = numerator units |
| | | | Factor Unit Denominator = denominator units |
| | | | Material = EPA material code that was processed |
| | | | Control Status = indicates if reported emissions are controlled or uncontrolled |
| | | | Emission Data Level = level of disaggregation of the emission record |
| | | | Submittal Flag = A |
| | | | **Tribal Code = 000** |

[a] Bold fields indicate primary key

Emission Unit ID and Process ID Key:

| | | |
|---|---|---|
| AMI | = | Amine gas sweetening unit |
| BOI | = | Boiler/heater/burner |
| B-INTn | = | Boiler/heater/burner: 10-100 MMBtu/hr, natural gas |
| BO<10n | = | Boiler/heater/burner: <10 MMBtu/hr, natural gas |
| BO<10p | = | Boiler/heater/burner: <10 MMBtu/hr, process gas |
| BO>100 | = | Boiler/heater/burner: >100 MMBtu/hr, natural gas |
| BO>100d | = | Boiler/heater/burner: >100 MMBtu/hr, diesel |
| CAI | = | Minor source, caisson |
| DIE | = | Diesel or gasoline engine |
| D<600d | = | Diesel engine: <600 hp, diesel fuel |
| D<600g | = | Gasoline engine: <600 hp, gasoline fuel |
| D>600d | = | Diesel engine: >600 hp, diesel fuel |
| DRI | = | Drilling rig |
| DR-DIE | = | Drilling rig, diesel fuel |
| FLA | = | Combustion flare |
| FL-LNf | = | Flare: light smoke, no continuous pilot, flare |
| FL-LPf | = | Flare: light smoke, with continuous pilot, flare |
| FL-LPp | = | Flare: light smoke, with continuous pilot, pilot |
| FL-MPf | = | Flare: medium smoke, with continuous pilot, flare |
| FL-MPp | = | Flare: medium smoke, with continuous pilot, pilot |
| FL-NNf | = | Flare: no smoke, no continuous pilot, flare |
| FL-NPf | = | Flare: no smoke, with continuous pilot, flare |

Emission Unit ID and Process ID Key (Continued):

| | | |
|---|---|---|
| FL-NPp | = | Flare: no smoke, with continuous pilot, pilot |
| FUG | = | Fugitives |
| FCDRg | = | Fugitives – centrifugal, dry seal, natural gas stream |
| FCDRo | = | Fugitives – centrifugal, dry seal, oil stream |
| FCDRog | = | Fugitives – centrifugal, dry seal, oil/water/gas stream |
| FCDRow | = | Fugitives – centrifugal, dry seal, oil/water stream |
| FCONg | = | Fugitives – connectors, natural gas stream |
| FCONho | = | Fugitives – connectors, heavy oil stream |
| FCONng | = | Fugitives – connectors, natural gas liquids stream |
| FCONo | = | Fugitives – connectors, oil stream |
| FCONog | = | Fugitives – connectors, oil/water/gas stream |
| FCONow | = | Fugitives – connectors, oil/water stream |
| FCPAg | = | Fugitives – centrifugal pack, natural gas stream |
| FCPAho | = | Fugitives – centrifugal pack, heavy oil stream |
| FCPAo | = | Fugitives – centrifugal pack, oil stream |
| FCPAog | = | Fugitives – centrifugal pack, oil/water/gas stream |
| FCPAow | = | Fugitives – centrifugal pack, oil/water stream |
| FCWEg | = | Fugitives – centrifugal, wet seal, natural gas stream |
| FCWEo | = | Fugitives – centrifugal, wet seal, oil stream |
| FCWEog | = | Fugitives – centrifugal, wet seal, oil/water/gas stream |
| FCWEow | = | Fugitives – centrifugal, wet seal, oil/water stream |
| FFLAg | = | Fugitives – flanges, natural gas stream |
| FFLAng | = | Fugitives – flanges, natural gas liquids stream |

Emission Unit ID and Process ID Key (Continued):

| | | |
|---|---|---|
| FFLAho | = | Fugitives – flanges, heavy oil stream |
| FFLAo | = | Fugitives – flanges, oil stream |
| FFLAog | = | Fugitives – flanges, oil/water/gas stream |
| FFLAow | = | Fugitives – flanges, oil/water stream |
| FOEg | = | Fugitives – open-ended lines, natural gas stream |
| FOEo | = | Fugitives – open-ended lines, oil stream |
| FOEog | = | Fugitives – open-ended lines, oil/water/gas stream |
| FOEow | = | Fugitives – open-ended lines, oil/water stream |
| FOTHg | = | Fugitives – other equipment, natural gas stream |
| FOTHho | = | Fugitives – other equipment, heavy oil stream |
| FOTHng | = | Fugitives – other equipment, natural gas liquids stream |
| FOTHo | = | Fugitives – other equipment, oil stream |
| FOTHog | = | Fugitives – other equipment, oil/water/gas stream |
| FOTHow | = | Fugitives – other equipment, oil/water stream |
| FPUMg | = | Fugitives – pumps, natural gas stream |
| FPUMng | = | Fugitives – pumps, natural gas liquids stream |
| FPUMho | = | Fugitives – pumps, heavy oil stream |
| FPUMo | = | Fugitives – pumps, oil stream |
| FPUMog | = | Fugitives – pumps, oil/water/gas stream |
| FPUMow | = | Fugitives – pumps, oil/water stream |
| FVALg | = | Fugitives – valves, natural gas stream |
| FVALho | = | Fugitives – valves, heavy oil stream |

Emission Unit ID and Process ID Key (Continued):

| | | |
|---|---|---|
| FVALng | = | Fugitives – valves, natural gas liquids stream |
| FVALo | = | Fugitives – valves, oil stream |
| FVALog | = | Fugitives – valves, oil/water/gas stream |
| FVALow | = | Fugitives – valves, oil/water stream |
| GLY | = | Glycol dehydrator unit |
| LOS | = | Losses from flashing |
| LQU | = | Minor source, living quarters |
| MIN | = | Minor source |
| MUD | = | Mud degassing |
| MUD-o | = | Mud degassing oil-based mud |
| MUD-s | = | Mud degassing, synthetic-based mud |
| MUD-w | = | Mud degassing, water-based mud |
| NGE | = | Natural gas engine |
| NGE-2C | = | Natural gas engine: 2-stroke, clean-burn |
| NGE-2L | = | Natural gas engine: 2-stroke, lean-burn |
| NGE-2R | = | Natural gas engine: 2-stroke, rich-burn |
| NGE-4C | = | Natural gas engine: 4-stroke, clean-burn |
| NGE-4L | = | Natural gas engine: 4-stroke, lean-burn |
| NGE-4R | = | Natural gas engine: 4-stroke, rich-burn |
| NGT | = | Natural gas turbine |

Emission Unit ID and Process ID Key (Continued):

| | | |
|---|---|---|
| OTH | = | Minor source, other |
| PNE | = | Pneumatic pumps |
| PRE | = | Pressure/level controllers |
| STO | = | Storage tank |
| STO-CO | = | Storage tank - condensate |
| STO-CR | = | Storage tank - crude oil |
| VEN | = | Cold vent |
| WHP | = | Minor source, wellhead protector |