READ ME file for the 2000 Gulfwide Access Files

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WHAT IS PROVIDED HERE?

The platform emission inventory files developed in the Gulfwide Study are provided for review and use by MMS, air quality modelers, and industry. This READ ME file provides important information integral to your use of the files.

ACRONYMS

CE	Control Efficiency Access Table
CH4	Methane
CO	Carbon Monoxide
CO2	Carbon Dioxide
EM	Emissions Access Table
EP	Emission Process Access Table
EPA	Environmental Protection Agency
ER	Emission Release Point Access Table
EU	Emission Unit Access Table
H2S	Hydrogen Sulfide
ID	Identification
MMS	Minerals Management System
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	Sites Access Table
SIC	Standard Industrial Classification
SCC	Source Classification Code
SOX	Sulfur Oxides
THC	Total Hydrocarbons
VOC	Volatile Organic Compounds

INTRODUCTION

The 2000 Gulfwide emissions inventory for platform sources is a comprehensive inventory covering criteria pollutants and greenhouse gases. The Gulfwide Inventory was developed by ERG, Inc. in Morrisville, North Carolina.

The scope of the 2000 Gulfwide Inventory effort was to compile 2000 base year activity data for all active platforms in Gulf of Mexico.

WHAT INVENTORY DATA FILES ARE PROVIDED?

These files are currently provided in Access XP®. The zipped file contains an Access® database with seven record types, or tables, containing platform and emissions data.

HOW ARE THE DATA FILES ORGANIZED?

ERG decided that a structure similar to that of the U.S. Environmental Protection Agency's National Emissions Inventory (NEI) database would be the best format to use in compiling the Gulfwide Inventory platform files. The specific data structure used for the 2000 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 files provided.

WHAT SOFTWARE DO I NEED TO USE THE DATA FILES?

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

HOW CAN I REVIEW OR USE THE FILES?

MMS, air quality modelers, and industry representatives can review and use these files 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 by mapping the latitude/longitude coordinates to the area of interest.

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

Site	Emission Unit	Emission Release Point
Record Type =SI	Record Type= EU	Record Type =ER
Site ID= Combination of User ID, Complex ID, and Structure ID	**Site ID= Combination of User ID, Complex ID, and Structure ID**	**Site ID= Combination of User ID, Complex ID, and Structure ID**
Federal Facility Identifier = Combination of Complex ID and Structure ID	**Emission Unit ID = see below; combination of equipment type abbreviation and equipment ID provided by operator**	**Emission Unit ID = see below; combination of equipment type abbreviation and equipment ID provided by operator**
SIC Primary =1382, Oil and Gas Field Exploration Services	SIC Unit Level= 1382, Oil and Gas Field Exploration Services	**Process ID= see below; represents equipment type abbreviation with more information on source type**
NAICS Primary = 213112, Support Activities for Oil and Gas Operations	NAICS Unit Level= 213112, Support Activities for Oil and Gas Operations	**Emission Release Point ID= provided by operator**
Facility Name = Company name + area-block name	Emission Unit Description	Emission Release Point Type= 01: Fugitive; 02: Stack
Street Line 1 (mailing address for contact)	Submittal Flag = A	Stack Height (ft)
Street Line 2 (mailing address for contact)		Stack Diameter (in)
Street Line 3 (mailing address for contact)		Exit Gas Temperature (^{o}F)
City (mailing address for contact)		Exit Gas Velocity (ft/sec)
State (mailing address for contact)		X Coordinate
Zip Code (mailing address for contact)		Y Coordinate
Country		XY Coordinate Type= Lat/Lon
Address Type= 06 (Parent Company)		Emission Release PT Description= Stack exit angle
Submittal Flag= A		Submittal Flag= A

Table 1b. Summary of Platform NIF Records

Emission Process	**Control Equipment**	**Emission Period**	**Emission**
Record Type= EP	Record Type= CE	Record Type= PE	Record Type= EM
Site ID= Combination of User ID, Complex ID, and Structure ID	**Site ID= Combination of User ID, Complex ID, and Structure ID**	**Site ID= Combination of User ID, Complex ID, and Structure ID**	**Site ID= Combination of User ID, Complex ID, and Structure ID**
Emission Unit ID= see below; combination of equipment type abbreviation and equipment ID provided by operator	**Emission Unit ID= see below; combination of equipment type abbreviation and equipment ID provided by operator**	**Emission Unit ID= see below; combination of equipment type abbreviation and equipment ID provided by operator**	**Emission Unit ID= see below; combination of equipment type abbreviation and equipment ID provided by operator**
Emission Release Point ID= provided by operator	**Process ID= see below; represents equipment type abbreviation with more information on source type**	**Process ID= see below; represents equipment type abbreviation with more information on source type**	**Process ID= see below; represents equipment type abbreviation with more information on source type**
Process ID= see below	**Pollutant ID**	**Start Date= As reported for each piece of equipment**	**Pollutant Code**
SCC= Source Classification Code	Primary PCT Control Efficiency	**End Date= As reported for each piece of equipment**	**Emission Release Point ID= provided by operator**
Emission Process Description	Primary Device Type Code	Actual Throughput = For the period specified	**Start Date**
Heat Content	Submittal Flag= A	Throughput Unit Numerator	**End Date**
Sulfur Content		Material	Emission Numeric Value
Submittal Flag= A		Average of Period Hours Per Day= calculated using monthly hours divided by days/mo	Emission Unit Numerator
		Average of Period Hours Per Period= hours/mo	**Emission Type= Entire Period (between start date and end date)**
		Submittal Flag= A	(Emission) Factor Numeric Value
			(Emission) Factor Unit Numerator
			(Emission) Factor Unit Denominator
			Material
			Control Status
			Emission Data Level= Process
			Submittal Flag= A

[a] Bold fields indicate primary keys.

Emission Unit ID and Process ID key:

AMI	=	Amine gas sweetening unit
BOI	=	Boiler/heater/burner
BOI<10	=	Boiler/heater/burner: <10 MMBtu/hr
BOI10-100	=	Boiler/heater/burner: 10-100 MMBtu/hr
BOI>100	=	Boiler/heater/burner: >100 MMBtu/hr
DIE	=	Diesel or gasoline engine
DIE<600	=	Diesel or gasoline engine: <600 hp
DIE>600	=	Diesel or gasoline engine: >600 hp
DRI	=	Drilling rig
DRI-diesel	=	Diesel fuel used in drilling operation
DRI-ng	=	Natural gas used in drilling operation
FLA	=	Flare
FLA-LP-Flaring	=	Flare: light smoke, with continuous pilot, flare
FLA-LP-Pilot	=	Flare: light smoke, with continuous pilot, pilot
FLA-LP-ups-Flaring	=	Flare: light smoke, with continuous pilot, flare upsets
FLA-MP-Flaring	=	Flare: medium smoke, with continuous pilot, flare
FLA-MP-Pilot	=	Flare: medium smoke, with continuous pilot, pilot
FLA-MP-ups-Flaring	=	Flare: medium smoke, with continuous pilot, flare upsets
FLA-NN-Flaring	=	Flare: no smoke, no continuous pilot, flare
FLA-NN-ups-Flaring	=	Flare: no smoke, no continuous pilot, flare upsets
FLA-NP-ups-Flaring	=	Flare: no smoke, with continuous pilot, flare upsets
FLA-NP-Pilot	=	Flare: no smoke, with continuous pilot, pilot
FLA-NP-Flaring	=	Flare: no smoke, with continuous pilot, flare

Emission Unit ID and Process ID key (Continued):

FUG	=	Fugitives
FUG-COM	=	Fugitive compressor seal
FUG-FLANGE	=	Fugitive flange
FUG-OTHER	=	Fugitive other relief valve
FUG-VALVE	=	Fugitive valve
FUG-PUMP	=	Fugitive pump
FUG-CENT-PACK	=	Fugitive shaft packing
FUG-OE	=	Fugitive open ended line
FUG-OTHER-COMP	=	Fugitive other seal
FUG-CENT-WET	=	Fugitive centrifugal wet seal
GLY	=	Glycol dehydrator unit
GLY-EG	=	Glycol dehydrator ethylene glycol
GLY-TEG	=	Glycol dehydrator triethylene glycol
LOA	=	Loading operation
LOS	=	Losses from flashing
LOS-HT	=	Losses from flashing: heater treater
LOS-other	=	Losses from flashing: other
LOS-sep	=	Losses from flashing: separator
LOS-sto	=	Losses from flashing: storage tank
LOS-sur	=	Losses from flashing: surge tank
MUD	=	Mud degassing
MUD-oil	=	Mud degassing oil based mud
MUD-syn	=	Mud degassing synthetic mud
MUD-wat	=	Mud degassing water based mud

Emission Unit ID and Process ID key (Continued):

NGE	=	Natural gas engine
NGE-4C	=	Natural gas engine: 4-stroke clean
NGE-4L	=	Natural gas engine: 4-stroke lean
NGE-4R	=	Natural gas engine: 4-stroke rich
NGE-2L	=	Natural gas engine: 2-stroke lean
NGE-2R	=	Natural gas engine: 2-stroke rich
NGT	=	Natural gas turbine
PNE	=	Pneumatic pumps
PNE-inj	=	Pneumatic pump injection
PNE-pump	=	Pneumatic pump diaphragm pump
PNE-sump	=	Pneumatic pump sump
PRE	=	Pressure/level controllers
STO	=	Storage tank
STO-fixed	=	Storage tank fixed root
STO-float	=	Storage tank floating roof
VEN	=	Vent