Data Dictionary

Sheet: **facility_information**
Description: Part I - General facility information

Field Name	Description
facility_id	4b. EIA Plant Code as reported on U.S. DOE/EIA Form-860 (2007), schedule 2, line 1, page 37, question 2 OR Plant ID as reported on U.S. DOE/EIA Form EIA-923 (2008), schedule 2, page 1, question 2
utility_code	EIA utility code
legal_owner_name	1. Name of legal owner of facility
legal_operator_name	2. Name of legal operator of facility
legal_address_type	3. Type of address given (legal owner or operator)
legal_address	3. Address of legal owner or operator
legal_city	3. City of legal owner or operator
legal_state	3. State of legal owner or operator
legal_zip	3. Zip code of legal owner or operator
plant_name	4a.Plant Name as reported on U.S. DOE/EIA Form-860 (2007), "Annual Electric Generator Report", schedule 2, line 1, p 37, question 1 OR Plant Name as reported on U.S. DOE/EIA Form EIA-923 (2008), "Power Plant Operations Report", schedule 2, p 1, question 1
physical_address	5. Street address of facility (physical location)
physical_city	5. City of facility (physical location)
physical_state	5. State of facility (physical location)
physical_zip	5. Zip code of facility (physical location)
mailing_address	6. Mailing address of facility
mailing_city	6. Mailing city of facility
mailing_state	6. Mailing state of facility
mailing_zip	6. Mailing zip code of facility
RFA_small_entity	9. Is this facility considered to be owned or operated by a small entity as defined by the Regulatory Flexibility Act? (Yes, No, Don't know)
ff_fired_coal	10. Facility fires coal in any steam generating unit
ff_fired_oil	10. Facility fires oil in any steam generating unit
ff_fired_ngas	10. Facility fires natural gas in any steam generating unit
ff_fired_petcoke	10. Facility fires pet coke in any steam generating unit
ff_fired_other	10. Facility fires other fossil fuel(s) in any steam generating unit
ff_permitted_coal	11. Facility is permitted to fire coal in any steam generating unit
ff_permitted_oil	11. Facility is permitted to fire oil in any steam generating unit
ff_permitted_ngas	11. Facility is permitted to fire natural gas in any steam generating unit
ff_permitted_petcoke	11. Facility is permitted to fire pet coke in any steam generating unit
ff_permitted_other	11. Facility is permitted to fire other fossil fuel(s) in any steam generating unit
deviation_reporting	9. Type of deviation reporting required for violations of permit requirements (Part II)
continuous_emissions	11. Are continuous emissions data available (e.g., mercury) that are not already being provided to U.S. EPA, even if from short term testing? (Part II)
cem_provided	11. If CEM data are being provided to EPA, please note to which office the data are being provided. (Part II)
facility_note	Any miscellaneous notes concerning anything about the facility or anything pertaining to the facility (boiler, units, fuel, test reports, etc.)

Sheet: **facility_coal_utilized**
Description: Part I - Coal or solid fuel utilized by facility

Field Name	Description
facility_id	Unique facility Id
coal_type	12. Type of coal (lignite, bituminous, subbituminous, anthracite, coal refuse, synfuel, petroleum coke) utilized during the past 12 months
percentage_mass	12. Percentage on a mass basis for coal rank
percentage_btu	12. Percentage on Btu basis for coal rank
synfuel_type	12. Type or form of synfuel used
coal_note	12. If necessary, a notation can be added to a utilized fuel type that is not listed in the operating permit noting the reason the fuel type was combusted.

Sheet: **facility_oil_utilized**
Description: Part I - Oil utilized by facility

Field Name	Description
facility_id	Unique facility Id
oil_type	13. Type of oil (distillate, residual or bunker C, other) utilized during the past 12 months
percentage_volume	13. Percentage on a volume basis of oil rank
percentage_btu	13. Percentage on a Btu basis of oil rank
other_type	13. Other specified oil used

Sheet: **facility_other_materials**
Description: Part I - Other non-fossil fuel utilized by facility

Field Name	Description
facility_id	Unique facility Id
other_material	14a. Other material utilized or permitted to be used
permitted_burn	14a. Permitted to burn other material
actually_burn	14a. Actually burn other material
other_quantity	14a. Quantity combusted in the boilers
other_quantity_units	14a. Quantity units
other_note	14a. If necessary, a notation can be added to a utilized fuel type that is not listed in the operating permit noting the reason the fuel type was combusted.
rcra_utilize	14b. Would material continue to be utilized if the material were classified as "solid waste" under the Resource Conservation and Recovery Act making the unit subject to CAA section 129?
rcra_explain	14b. Explanation of response to material being utilized if classified as "solid waste"

Sheet: **boiler_information**
Description: Part I - General boiler information

Field Name	Description
facility_id	Unique facility Id
boiler_id	15. Boiler ID as reported on U.S. DOE/EIA Form EIA-860 (2007), "Annual Electric Generator Report", schedule 6, part A, line 1, page 53 OR on schedule 6, part B, line 1, page 54 OR Generator ID as reported on U.S. DOE/EIA From EIA-923 (2008), "Power Plant
boiler_type	16. Boiler type (tangential-fired, cyclone, wall-fired, circulating fluidized bed (CFB), etc.)
boiler_other	16. Other boiler type
bottom_design	What is the furnace bottom type design?
design_fuel	15. Original design fuel (i.e. coal rank or type of oil)
primary_fuel	Primary fuel fired by the boiler (coal, oil, petroleum coke, coal gas, or biomass). This field was added as an aide to help sorting units by their current (12/31/09) primary fuel. Units permitted to fire fuel oil as their primary fuel are listed as “Oil” even if these units are currently firing natural gas as their primary fuel.
heat_input	15. Design heat input per fuel burned in the boiler, MMBtu/hr
max_heat_input	15. Present maximum heat input per fuel burned in the boiler, MMBtu/hr
MWe_capacity	15. MWe gross capacity, summer (mega watts electric output)
MWe_net_capacity	15. MWe net capacity, summer (mega watts electric output)
design_gross_efficiency	15. Original design gross efficiency (%, HHV)
operating_gross_efficiency	15. Present operating gross efficiency (%, HHV)
design_gross_thermal_efficiency	This field’s data was copied from data entered in the design_gross_efficiency field when it was determined that respondent meant these data to actually be the original design gross thermal efficiency. The data reflecting the original design gross combustion efficiency were left in the design_gross_efficiency field.
operating_gross_thermal_efficiency	This field’s data was copied from data entered in the operating_gross_efficiency field when it was determined that respondent meant these data to actually be the current operating gross thermal

	efficiency. The data reflecting the current operating gross combustion efficiency were left in the operating_gross_efficiency field.
design_pressure	15. Design steam pressure (psig)
operating_pressure	15. Operating steam pressure (psig)
design_temp	15. Design steam temperature (deg F)
operating_temp	15. Operating steam temperature (deg F)
design_reheat_multiple	15. More than one design steam reheat cycle is utilized
design_reheat_temp1	15. First design steam reheat temperature (deg F)
design_reheat_temp2	15. Second design steam reheat temperature (deg F)
operating_reheat_multiple	15. More than one operating steam reheat cycle is utilized
operating_reheat_temp1	15. First operating steam reheat temperature (deg F)
operating_reheat_temp2	15. Second operating steam reheat temperature (deg F)
hours_operated	15. Hours/year operated
avg_capacity_factor	15. Average annual capacity factor for the past 3 years in percent
applicable_NSPS	15. Applicable NSPS (New Source Performance Standards)
retirement_year	15. Estimated year of retirement
retirement_year_CBI	15. If true, then retirement year information is CBI
NOx_control	Does this furnace utilize combustion Nitrogen Oxide (NOx) control(s)?
SO2_control	Does this furnace utilize pre-combustion Sulfur Dioxide (SO2) control(s)?
combustion_additives	Does this furnace utilize any combustion additives to help control criteria pollutants or HAPs?

Sheet: **boiler_fuels**
Description: Part I - Fuels used by each boiler

Field Name	Description
facility_id	Unique facility Id
boiler_id	Unique boiler Id
fuel_type	15. Boiler fuel type
fuel_year	15. Year for fuel
percentage_massvol	15. Percentage on a mass or volume basis
percentage_btu	15. Percentage on Btu basis
other_type	15. Other fuel type

Sheet: **boiler_control_NOx**
Description: Part I - Boiler combustion NOx controls

Field Name	Description
facility_id	Unique facility Id
boiler_id	Unique boiler Id
NOx_type	What type of combustion Nitrogen Oxide (NOx) control is used?
NOx_other	Other NOx type
NOx_online	When did this combustion Nitrogen Oxide (NOx) control go online (m/yr)?

Sheet: **boiler_control_SO2**
Description: Part I - Boiler pre-combustion SO2 controls

Field Name	Description
facility_id	Unique facility Id
boiler_id	Unique boiler Id
SO2_type	What type of pre-combustion sulfur dioxide (SO2) control is used?
SO2_other	Other SO2 type
SO2_online	When did this pre-combustion method sulfur dioxide (SO2) start being used (m/yr)?

Sheet: **boiler_additives**
Description: Part I - Boiler pre-combustion SO2 controls

Field Name	Description
facility_id	Unique facility Id

boiler_id	Unique boiler Id
boiler_additive	What type of combustion additives area being injected/added to this furnace?
additive_other	Other additive type
additive_online	When did you begin using this additive (m/yr)?

Sheet: **facility_units**
Description: Part I - Units at facility used for configuration

Field Name	Description
facility_id	Unique facility Id
unit_id	Unique unit Id

Sheet: **unit_boilers**
Description: Part I - Boilers assigned to each unit at the facility

Field Name	Description
facility_id	Unique facility Id
unit_id	Unique unit Id
boiler_id	Unique boiler Id

Sheet: **facility_controls**
Description: Part I - Controls at facility used for configuration

Field Name	Description
facility_id	Unique facility Id
control_id	Unique control Id
control_group	General control group (i.e. NOx control, SO2 control, PM control, Other control)
control_type	Type of control
control_other	Other type of control
legacy_control	If true, then this control is not currently in use (removed since 1/1/2004)
control_online	When did this control go online (m/yr)?
control_offline	When did this control go offline (m/yr)?
NOx_reagent	What type of SCR/SNCR Reagent is used in this post-combustion Nitrogen Oxide (NOx) control?
reagent_other	Other type of reagent
NOx_ammonia	If aqueous ammonia is used during this device's operation, what percentage of ammonia is in this aqueous solution?
SO2_sorbent	What type of Sorbent is used in this Flue Gas Desulfurization Device (scrubber)?
other_sorbent	Other type of sorbent
SO2_scrubber_additive	Does this Flue Gas Desulfurization Device (Scrubber) utilize any type of scrubber additive for non-SO2 control (e.g., to minimize mercury revolatization)?

Sheet: **facility_sampling_ports**
Description: Part I - Sampling ports at facility used for configuration

Field Name	Description
facility_id	Unique facility Id
sampling_port_id	Unique sampling port Id

Sheet: **facility_stacks**
Description: Part I - Stacks at facility used for configuration

Field Name	Description
facility_id	Unique facility Id
stack_id	Unique stack Id
stack_height	Stack height (ft)
stack_diameter	Stack diameter (ft)

stack_gas_velocity	Stack gas velocity (ft/s)

Sheet: **configurations**
Description: Part I - Configurations at this facility

Field Name	Description
facility_id	Unique facility Id
configuration_id	Unique unit configuration identifier

Sheet: **configuration_components**
Description: Part I - Components which make up each unit configuration

Field Name	Description
facility_id	Unique facility Id
configuration_id	Unique configuration Id
component_id	Unique component Id
order	16. Order of component in configuration
component_type	16. Type of component in configuration (unit, control, sampling port, stack)
port_near	16. Used for sampling ports, indicates whether it is closer to previous or next component

Sheet: **configuration_pollutants**
Description: Part I - Configuration emission limits, rates, and monitoring information by pollutant

Field Name	Description
facility_id	Unique facility Id
configuration_id	Unique configuration Id
pollutant_name	Pollutant name
permit_type_1	21. Type of permit (first)
emlimit_1	21. Permitted emission limit (first)
emlimit_units_1	21. Units for emission limit (first)
avg_period_1	21. Averaging period for emission limit (1 - 24 hours, or 30 days)- first
emlimit_2	21. Permitted emission limit (second)
emlimit_units_2	21. Units for emission limit (second)
avg_period_2	21. Averaging period for emission limit (1 - 24 hours, or 30 days)- second
emlimit_3	21. Permitted emission limit (third)
emlimit_units_3	21. Units for emission limit (third)
avg_period_3	21. Averaging period for emission limit (1 - 24 hours, or 30 days)- third
emlimit_4	21. Permitted emission limit (fourth)
emlimit_units_4	21. Units for emission limit (fourth)
avg_period_4	21. Averaging period for emission limit (1 - 24 hours, or 30 days)- fourth
emlimit_5	21. Permitted emission limit (fifth)
emlimit_units_5	21. Units for emission limit (fifth)
avg_period_5	21. Averaging Period for emission limit (1 – 23 hours, or 30 days)-fifth
emlimit_details	21. Any details concerning the emission limit
test_method	21. List the method utilized (for PM only)
emrate	22. Most recent guaranteed emission rate
emrate_units	22. Units for emission rate
guarantee_level	23. Was any other guarantee level sought or offered?
level_explain	23. Please elaborate on other guarantee level sought or offered
req_monitoring	24. Required monitoring
req_recordkeeping	24. Required recordkeeping
req_reporting	24. Reporting requirements

Sheet: **control_technologies**
Description: Part I - General information about each control technology

Field Name	Description
facility_id	Unique facility Id
configuration_id	Unique configuration Id

component_id	Control device directly modified by this project
control_id	Unique control technology Id
project_title	Project title
project_type	17 & 19. Project type (demonstration or non-demonstration)
vendor_name	17 & 19. Company (prime vendor) name
vendor_contact	17 & 19.Company contact name
vendor_phone	17 & 19.Company contact phone number
vendor_address	17 & 19.Company contact street address
vendor_city	17 & 19.Company contact city
vendor_state	17 & 19.Company contact state
vendor_zip	17 & 19.Company contact zip code
actual_start_date	18 & 20. Actual start-up date
projected_start_date	18 & 20. Projected start-up date
end_date	18. Demonstration activity end date or projected end date
sorbent	18. Sorbent
chemical_additive	18 & 20. Chemical additive
injection_point	18 & 20. Injection point for chemical additive
HAP_emission_reduction	18 & 20.Pollutant emission reduction (%) - desired
HAP_emission_rate	18 & 20.Pollutant emission rate - desired
HAP_emission_rate_units	18 & 20.Units for Pollutant emission rate - desired
HAP_achieved_reduction	18 & 20.Pollutant emission reduction (%) - achieved
HAP_achieved_rate	18 & 20.Pollutant emission rate - achieved
HAP_achieved_rate_units	18 & 20.Units for Pollutant emission rate - achieved
feed_rate	20. Sorbent or additive feed rate
feed_rate_units	20. Units for feed rate

Sheet: **control_coal_ranks**
Description: Part I - Control technology coal ranks

Field Name	Description
facility_id	Unique facility Id
configuration_id	Unique configuration Id
component_id	Unique component Id
control_id	Unique control Id
coal_type	18 & 20. Coal type in use or upon which guarantee is based

Sheet: **control_pollutants**
Description: Part I - Pollutants controlled by each control technology

Field Name	Description
facility_id	Unique facility Id
configuration_id	Unique configuration Id
component_id	Unique component Id
control_id	Unique control Id
pollutant_name	Pollutant controlled by control technology

Sheet: **control_costs**
Description: Part I - Control technology costs

Field Name	Description
facility_id	Unique facility Id
configuration_id	Unique configuration Id
component_id	Unique component Id
control_id	Unique control Id
boiler_retrofit	25. Was this a retrofit to an existing boiler?
boiler_new_install	25. Was this installed when the boiler was new?
total_capital_investment	25. Total capital investment ($)
total_operating_costs	25. Total annual operating and maintenance costs ($)
base_year	25. Base year for operating costs (e.g., 2006)
CBI	If box is checked, then the investment and cost information is confidential.

Sheet: **misc_controls**
Description: Part I - Other means of emission control

Field Name	Description
facility_id	Unique facility Id
misc_control_id	Unique miscellaneous control Id given by the program. Refers to record number.
control_description	26. Any other means of emission control (for any pollutant) employed on any boiler (e.g., low-ash coal, coal or oil with low trace constituents, etc)

Sheet: **misc_control_configurations**
Description: Part I - Unit configurations associated with other means of emission control

Field Name	Description
facility_id	Unique facility Id
misc_control_id	Unique miscellaneous control Id given by the program. Refers to record number.
configuration_id	Unique unit configuration identifier

Table: Hg_cem_daily
Description: Daily Mercury CEMS data

Field Name	Description
facility_id	EIA Plant Code
stack_id	Stack or sampling port Id
collection_date	Collection date
collection_end_date	End date for collection (to be used with specific types of cem data only)
Hg_total_emissions	Daily Total Mercury (Hg) Emissions (ounces)
Hg_total_fluegas	Daily Total Mercury (Hg) Fluegas Concentration
Hg_total_fluegas_units	Daily Total Mercury (Hg) Fluegas units of measure
Hg_total_emission_factor	Average Daily Total Mercury (Hg) Emission Factor (lb/MMBtu)
Hg_elemental_emissions	Daily Elemental Mercury (Hg0) Emissions (ounces)
Hg_elemental_fluegas	Daily Elemental Mercury (Hg0) Fluegas Concentration
Hg_elemental_fluegas_units	Daily Elemental Mercury (Hg) Fluegas units of measure
Hg_elemental_emission_factor	Average Daily Elemental Mercury (Hg0) Emission Factor (lb/MMBtu)
Hg_oxidized_emissions	Daily Oxidized Mercury (Hg+2) Emissions (ounces)
Hg_oxidized_fluegas	Daily Oxidized Mercury (Hg+2) Fluegas Concentration
Hg_oxidized_fluegas_units	Daily Oxidizedl Mercury (Hg) Fluegas units of measure
Hg_oxidized_emission_factor	Average Daily Oxidized Mercury (Hg+2) Emission Factor (lb/MMBtu)
Hg_emission_rate	Average Mercury Emission Rate (ounces/hr)
fluegas_flowrate	Fluegas Flowrate (scfh)
fluegas_temperature	Fluegas Temperature (°F)
heat_input	Heat Input (MMBtu/hr)
average_load	Average Daily Load (MW Gross)
operating_time	Unit or Stack Operating Time (hr)
moisture_fraction	Moisture Fraction of the Stack Gas
f_factor	F-Factor (Fd, Fw, or Fc=….)

Table: Hg_cem_hourly
Description: Hourly Mercury CEMS data

Field Name	Description
facility_id	EIA Plant Code
stack_id	Stack or sampling port Id
collection_date	Collection date
collection_hour	Collection hour

Hg_total_emissions	Hourly Total Mercury (Hg) Emissions (ounces)
Hg_total_fluegas	Hourly Total Mercury (Hg) Fluegas Concentration
Hg_total_fluegas_units	Hourly Total Mercury (Hg) Fluegas units of measure
Hg_total_emission_factor	Average Hourly Total Mercury (Hg) Emission Factor (lb/MMBtu)
Hg_elemental_emissions	Hourly Elemental Mercury (Hg0) Emissions (ounces)
Hg_elemental_fluegas	Hourly Elemental Mercury (Hg0) Fluegas Concentration
Hg_elemental_fluegas_units	Hourly Elemental Mercury (Hg) Fluegas units of measure
Hg_elemental_emission_factor	Average Hourly Elemental Mercury (Hg0) Emission Factor (lb/MMBtu)
Hg_oxidized_emissions	Hourly Oxidized Mercury (Hg+2) Emissions (ounces)
Hg_oxidized_fluegas	Hourly Oxidized Mercury (Hg+2) Fluegas Concentration
Hg_oxidized_fluegas_units	Hourly Oxidizedl Mercury (Hg) Fluegas units of measure
Hg_oxidized_emission_factor	Average Hourly Oxidized Mercury (Hg+2) Emission Factor (lb/MMBtu)
fluegas_flowrate	Fluegas Flowrate (scfh)
fluegas_temperature	Fluegas Temperature (°F)
heat_input	Heat Input (MMBtu/hr)
average_load	Average Load for the Hour (MW Gross)
operating_time	Unit or Stack Operating Time (hr)
moisture_fraction	Moisture Fraction of the Stack Gas
f_factor	F-Factor (Fd, Fw, or Fc=….)
operational_status	Operational status at time of sample
certified_yn	Indicates Yes/No whether sample was taken while certified for CEM
comments	Comments concerning individual CEMS records

Table: Hg_emission_limits
Description: Mercury CEMS unit identifying information and permit limits if any

Field Name	Description
facility_id	EIA Plant Code
stack_id	Stack or sampling port Id
Hg_emlimit_1	Permitted emission limit (first)
Hg_emlimit_units_1	Units for emission limit (first)
Hg_emlimit_2	Permitted emission limit (second)
Hg_emlimit_units_2	Units for emission limit (second)
Hg_emlimit_3	Permitted emission limit (third)
Hg_emlimit_units_3	Units for emission limit (third)
Hg_emlimit_4	Permitted emission limit (fourth)
Hg_emlimit_units_4	Units for emission limit (fourth)

Sheet: **fuel_shipments**
Description: Part II - Coal and oil shipments received during the preceding 12 calendar months

Field Name	Description
facility_id	Unique facility Id
shipment_id	2. Unique shipment Id
shipment_date	2. Date of shipment (m/yr)
amount_received	2. Amount received, dry basis, short tons
amount_units	2. Units for amount received
fuel_type	2. Fuel type (coal, oil, or petroleum coke)
state_country	2. State or country from which the fuel originated
other_country	2. Other description for state/country of origin
county	2. County from which the fuel originated
coal_seam	2. Coal seam (if known) from which the coal originated
shipment_method	2. Fuel shipment method

Sheet: **fuel_shipment_configurations**
Description: Part II - Configurations firing fuels from shipment

Field Name	Description
facility_id	Unique facility Id

shipment_id	Unique shipment Id
configuration_id	2. Unique unit configuration identifier

Sheet: **fuel_shipment_samples**
Description: Part II - Fuel shipment analyses

Field Name	Description
facility_id	Unique facility Id
shipment_id	Unique shipment Id
sample_id	3. Unique sample Id
amount_fuel	3. Total amount of fuel represented by sample (tons or gallons)
amount_fuel_units	3. Units of amount of fuel represented by sample (tons or gallons)
total_sulfur	3. Total sulfur (%)
ash_content	3. Ash content (%)
heating_value	3. Heating value (Btu/lb)
heating_units	3. Units of heating value
chlorine	3. Chlorine concentration
chlorine_units	3. Units of chlorine concentration
fluorine	3. Fluorine concentration
fluorine_units	3. Units of fluorine concentration
data_provided	4. Data acquired pursuant to: (permit requirements, contractual obligations, standard operating procedures, or other)
data_other_specified	4. Other specified
supplier_type	5. Analyses supplied by: (fuel supplier or other)
supplier_name	5. Supplier name
supplier_address	5. Supplier street address
supplier_city	5. Supplier city
supplier_state	5. Supplier state or country
supplier_zip	5. Supplier zip code
lab_name	6. Name of laboratory performing analysis
lab_address	6. Laboratory street address
lab_city	6. Laboratory city
lab_state	6. Laboratory state or country
lab_zip	6. Laboratory zip code
analysis_copies	7. Are copies of your analysis included with your ICR submission?

Sheet: **fuel_sample_pollutants**
Description: Part II - Pollutant concentrations in fuel samples

Field Name	Description
facility_id	Unique facility Id
shipment_id	Unique shipment Id
sample_id	Unique sample Id
fuel_pollutant	3. Fuel pollutant
pollutant_conc	3. Pollutant concentration
pollutant_conc_units	3. Concentration units
pollutant_conc_ND	If true, then pollutant concentration is non-detect
pollutant_conc_MDL	Pollutant concentration method detection limit

Sheet: **test_reports**
Description: Part II - Test reports associated with each facility

Field Name	Description
facility_id	Unique facility Id
report_id	8a. Unique report Id or name
report_type	8b. Type of test report
other_type	8b. Other type of test report
report_description	8a. Description of test report
report_begin_date	8b. Begin date covered by test report
report_end_date	8b. End date covered by test report

before_control	8c. Does this test report reflect testing before any emission control devices?
during_deviation	8e. Does this test report reflect testing during periods of startup, shutdown, and malfunction?
deviation_reports	10. Is this report for malfunctions or other periods of noncompliance with permit terms and conditions?

Sheet: **test_report_configurations**
Description: Part II - Unit configuration(s) associated with test report

Field Name	Description
facility_id	Unique facility Id
report_id	Unique report Id or name
configuration_id	12. Unit configuration id associated with test report (represents the configuration used during the testing)

Sheet: **test_report_fuels**
Description: Part II - Fuels used during each test report

Field Name	Description
facility_id	Unique facility Id
report_id	Unique report Id or name
fuel_id	Unique fuel Id or name of fuel used during this test report

Sheet: **test_report_fuel_types**
Description: Part II - Individual fuel types which comprise each fuel used during the test reports

Field Name	Description
facility_id	Unique facility Id
report_id	Unique report Id or name
fuel_id	Unique fuel Id or name
fuel_type	Individual type of fuels which comprise the fuel used during the test report
percentage_massvol	Percentage on a mass or volume basis
percentage_btu	Percentage on Btu basis
other_type	Other fuel type

Sheet: **test_report_sampling**
Description: Part II - Sampling point information for each test report

Field Name	Description
facility_id	Unique facility Id
report_id	Unique report Id or name
sampling_port_id	Unique sampling port Id
point_differ	8f. Is there any special placement of the sampling port in reference to the unit configuration that was not represented in the Part I configuration component ordered list?
point_description	8f. If yes above, then describe the special placement of the sampling point
before_SO2_device	8g. Is this sampling point before a post combustion SO2 emission control device (e.g., FGD, SDA, Dry Scrubber)?
point_orientation	8g. orientation of the sampling points in relation to the scrubber and scrubber bypass
normal_bypass_percent	8g. Percentage of bypass under normal operations
testing_bypass_percent	8g. Percentage of bypass during this testing
fg_fraction	Description of fraction of Flue gas flow that this sampling port samples (i.e., is the Flue Gas split/manifolded)

Sheet: **sampling_runs**
Description: Part II - Sample runs for each sampling port and test report

Field Name	Description
facility_id	Unique facility Id
report_id	Unique report Id or name
sampling_port_id	Unique sampling port Id
run_id	Run Id
start_datetime	Run start date/time
end_datetime	Run end date/time
unit_load	Unit load, MW
net_generation	Net generation during run, MWh net
fg_moisture_content	Flue gas moisture content (%)
fg_flow_rate	Flue gas flow rate
fg_flow_rate_units	Flue gas flow rate units
standard_temperature	Standard temperature (deg F)
standard_pressure	Standard pressure (atm)
normal_temperature	Normal temperature (deg F)
normal_pressure	Normal pressure (atm)
fg_oxygen_content	Flue gas oxygen content (dry), %
fg_CO2_content	Flue gas carbon dioxide content (dry), %
fg_temperature	Flue gas temperature (°F) at sampling port
fg_pressure	Flue gas pressure (atm) at sampling port
Hg_loi	Loss of ignition for Mercury testing (%)
test_method	Test run method
run_comments	Test run comment
fuel_id	Unique fuel Id or name of fuel used during this sampling run
fuel_unit_load	Fuel unit load, MW
fuel_flow_rate	Fuel flow rate (dry), lb/hr
fuel_ash	Fuel ash (dry), %
fuel_heating_value	Fuel heating value (dry), HHV, Btu/lb
fuel_sulfur	Fuel sulfur (dry), %

Sheet: **sampling_run_pollutants1**
Description: Part II - Sample run emissions data by pollutant

Field Name	Description
facility_id	Unique facility Id
report_id	Unique report Id or name
sampling_port_id	Unique sampling port Id
run_id	Run Id
pollutant_name	Pollutant name
conc	Concentration
conc_units	Concentration units
conc_ND	If true, then concentration is non-detect
conc_MDL	Concentration method detection limit
emission_rate	Emission rate
emission_rate_units	Emission rate units
emission_rate_ND	If true, then emission rate is non-detect
emission_rate_MDL	Emission rate method detection limit
emission_factor	Emission factor
emission_factor_units	Emission factor units
emission_factor_ND	If true, then emission factor is non-detect
emission_factor_MDL	Emission factor method detection limit
run_pollutant_comment	Run pollutant comment

Sheet: **sampling_run_fuel**
Description: Part II - Sample run fuel composition by pollutant

Field Name	Description
facility_id	Unique facility Id
report_id	Unique report Id or name
sampling_port_id	Unique sampling port Id
run_id	Run Id
fuel_pollutant	Fuel composition pollutant

fuel_conc	Fuel concentration
fuel_conc_units	Fuel concentration units
fuel_conc_ND	If true, then fuel concentration is non-detect
fuel_conc_MDL	Fuel concentration method detection limit