U.S. Department of Energy U.S. Energy Information Administration Form EIA-860 (2011)		ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS	Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours
PURPOSE	equipment (including the United States, and specified reporting pe Electric Power Month	generators, boilers, cooling systems of those scheduled for initial commerciod. The data from this form appearly, Electric Power Annual, and the Automonitor the current status and tree	ric generating plants and associated and flue gas desulfurization systems) in cial operation within 10 years of the r in several EIA publications; including the nnual Energy Review. The data collected ands of the electric power industry and to
REQUIRED RESPONDENTS	plants that: 1) have a MW or greater; and 2) connected to the local	total generator nameplate capacity ( where the generator(s), or the facili or regional electric power grid and	ig plants and proposed (10-year plans) (sum for generators at a single site) of 1 ity in which the generator(s) resides, is has the ability to draw power from the grid elated details to determine total capacity at
	interconnected grid, g	enerators that are connected to a "p	nich are not a part of the North American public grid," meaning a local or regional the public, must be reported on Form EIA-
	The operator or plann plants.	ed operator of jointly-owned plants s	should be the only respondent for those
RESPONSE DUE DATE	Submit the completed	Form EIA-860 directly to the EIA ar	nnually on or before March 31.
METHODS OF FILING RESPONSE		tronically using EIA's secure e-filing formation against unauthorized acce	
RESPONSE	If you have not registered with e-file Single Sign-On (SSO) system, send an email requesting assistance to: <a href="mailto:EIA-860@eia.gov"><u>EIA-860@eia.gov</u></a> .		
	If you have registered	with SSO, log on at https://signon.e	ia.gov/ssoserver/login.
		chnical problem with logging into or underlined in the delegant of the delegan	using the e-file system, contact the Help 95
	If you need an alterna	te means of filing your response, co	ntact the Help Center.
	Please retain a compl	eted copy of this form for your files.	
CONTACTS	Internet System Qu information immediate		the e-filing system, see the help contact
	Data Questions: For	questions about the data requested	on Form EIA-860, contact the survey staff:

Vlad Dorjets
Fax Number: 202-287-1960
Email: Vlad.Dorjets@eia.gov mailto:Suparna Ray Fax Number: 202-287-1960

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U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

### GENERAL INSTRUCTIONS

- Verify all EIA-provided information. If incorrect, revise the incorrect entry and provide the correct information. State codes are two-letter U.S. Postal Service abbreviation. Provide any missing information. If filing a paper copy of this form, typed or legible handwritten entries are acceptable. Allow the original entry to remain readable. See more specific instructions for correcting data in SCHEDULE 2. POWER PLANT DATA, and SCHEDULE 3. GENERATOR INFORMATION.
- 2. Check all data for consistency with the same or related data that appear in more than one schedule of this form or in other forms or reports submitted to EIA. Explain any inconsistencies in SCHEDULE 7. COMMENTS.
- 3. For planned power plants and/or planned equipment, use planning data to complete the form.
- Report in whole numbers (i.e., no decimal points), except where explicitly instructed to report otherwise.
- 5. Indicate negative amounts by using a minus sign before the number.
- 6. Report date information as a two-digit month and four-digit year, e.g., "11 1980."
- 7. Furnish the requested information to reflect the status of your current or planned operations as of the end of the data year. If your company no longer operated a specific power plant as of December 31, report the name of the operator as of December 31 along with related contact information (including contact person's name, telephone number, and email address, if known) in SCHEDULE 7. COMMENTS. Do not complete the form for that power plant.
- 8. To request additional blank schedules contact the U.S. Energy Information Administration using the contact information on page 1, or download the form from <a href="http://www.eia.gov/cneaf/electricity/page/forms.html">http://www.eia.gov/cneaf/electricity/page/forms.html</a>.
- 9. For definitions of terms, refer to the U.S. Energy Information Administration glossary at <a href="http://www.eia.gov/glossary/index.html">http://www.eia.gov/glossary/index.html</a>.
- 10. For the purpose of determining reporting requirements, the capacity of a power plant is the sum of the maximum ratings (in megawatts) on the nameplates of all applicable generators at a specific site. For photovoltaic (PV) solar, use the AC ratings of the array for a specific site.

### ITEM-BY-ITEM INSTRUCTIONS

#### **SCHEDULE 1. IDENTIFICATION**

- 1. **Survey Contact:** Verify contact name, title, address, telephone number, fax number, and email address.
- 2. **Supervisor of Contact Person for Survey:** Verify the contact's supervisor's name, title, address, telephone number, Fax number and email address.
- Report For: Verify all information, including operator name, operator identification number, and year for which data are being reported. These fields cannot be revised online. Contact EIA if corrections are needed.

If any of the above information is incorrect, revise the incorrect entry and provide the correct information. Provide any missing information.

### **Operator and Preparer Information:**

4. For Legal Name of Operator, enter the name. The operator of the power plant is the electric power producer owner/joint owner of the plant or a subsidiary of the electric power producer who has a working interest in the plant and who is responsible for making the strategic decisions related to the management and physical operation of the power plant. The operator entity may also be an electric power producer or a subsidiary of an electric power producer who operates a power plant that is wholly owned by another electric power producer. Operator excludes energy services companies under contract to operate the plant for the electric power producer; in these cases, the electric power producer should be reported as the legal operator.

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

- 5. For **Current Address of Principal Business Office of Plant Operator**, enter the principal name and address of where the operator's principal office is located. Include an attention line, room number, building designation, etc.
- 6. For Preparer's Legal Name, enter the name if different from Legal Name of Operator.
- 7. For **Current Address of Preparer's Office** enter preparer's current address if it is different from the address of the **Legal Name of Operator**.
- 8. For **Is the Operator an Electric Utility or Owned by an Electric Utility**; check "Yes" if so. Otherwise check "No."

#### SCHEDULE 2. POWER PLANT DATA

Verify or complete one section for each existing power plant and each power plant planned for initial commercial operation within 10 years of the specified reporting period. To report a new plant or a plant that is not already identified, use a blank SCHEDULE 2.

- 1. For line 1, **Plant Name** and **EIA Plant Code**, enter the name of the power plant, and the EIA Plant Code for the power plant. Each power plant must be uniquely identified. The type of plant does not need to be a part of the plant name, e.g., "Plant x Hydro" needs to be reported as "Plant x" only. The type of plant is recognized by the prime mover code(s) reported in SCHEDULE 3. GENERATOR INFORMATION. There may be more than one prime mover type associated with a single plant name (single site). Enter "NA 1," "NA 2," etc., for planned facilities that have no name(s).
- 2. For line 2, Street Address, enter the street address of the power plant.
- 3. For line 3, **County Name** and **City Name**, enter the county and city in which the plant is (will be) located. Enter "NA" for planned facilities that have not been sited. If a mobile power plant, indicate with a note in SCHEDULE 7. COMMENTS.
- 4. For line 4, **State**, enter the two-letter U.S. Postal Service abbreviation for the State in which the plant is located. Enter "NA" for planned facilities for which the State has not been determined. If the State is "NA," the county name must be "NA."
- 5. For line 5, **Zip Code**, enter the zip code of the plant. Provide, at a minimum, the five-digit zip code; however, the nine-digit code is preferred.
- 6. For line 6, **Latitude and Longitude**, enter the latitude and longitude of the plant in degrees, minutes, and seconds.
- 7. For line 7, Enter Datum for Latitude and Longitude, if Known; Otherwise Enter "UNK" the longitude and latitude measurement for a location depends in part on the coordinate system (or "datum") to which the measurement is keyed. "Datum systems" used in the United States, include the North American Datum 1927 (NAD27), North American Datum 1983 (NAD83) and World Geodetic Survey 1984 (WGS84). If you know the datum system for the plant longitude and latitude, enter the system name (e.g., NAD83) on line 7. If you do not know the datum system used, enter UNK.
- 8. For line 8a, **NERC Region**, enter the NERC region in which the plant is located.
- 9. For line 8b, **Is this Plant in a RTO or ISO Territory?**, check "Yes" or "No" for whether the plant in the service territory of a Regional Transmission Organization or Independent System Operator.
- 10. For line 8c, **Name of RTO or ISO**, if you answered "Yes" in line 8b, select the RTO or ISO from the list. If your RTO or ISO does not appear on the list, select "Other" and explain in SCHEDULE 7. COMMENTS.
- 11. For line 9, **Name of Water Source**, enter the name of the principal source from which cooling water for thermal-electric plants and water for generating power for hydroelectric plants is directly obtained or the water source for hydrokinetic projects. If more than one water source is (will be) used, enter the name(s) of the other sources of water in SCHEDULE 7. COMMENTS.

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

Enter "Municipality" if the water is from a municipality. Enter "wells" if water is from wells. Enter "NA" for planned facilities for which the water source is not known.

- 12. Responses for line 10, **Steam Plant Status**, and line 11, **Steam Plant Type**, are entered by EIA survey managers for all plants that are combustible-fueled steam generator (including steam generators with duct firing) with 10 MW or more nameplate capacity, combined cycle steam generators without duct firing, nuclear generators, and solar thermal generators using a steam cycle with 100 MW or more nameplate capacity. If the **Steam Plant Status** or **Steam Plant Type** is not accurate, please contact the survey manager.
- 13. For line 12, **Primary Purpose of the Plant**, enter the North American Industry Classification System (NAICS) code that best describes the primary purpose of the reporting plant. Electric utility plants will generally use code 22. Independent power producers whose sole or primary business is the sale of electricity will also generally use code 22. For industrial and commercial generators whose primary business is an industrial or commercial process (e.g., paper mills, refineries, chemical plants, etc.), use Table 2 in these instructions to determine the code.
- 14. For line 13, **Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Cogenerator Status?**, check "Yes" or "No"; if "Yes" provide all QF docket numbers granted to the facility. Please do not include the prefix (e.g. QF, EWG, etc.) when entering the docket numbers. Only include the numerical portion of the docket number, including dashes.
- 15. For line 14, **Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Small Power Producer Status?**, check "Yes" or "No"; if "Yes" provide all QF docket numbers granted to the facility. Please do not include the prefix (e.g. QF, EWG, etc.) when entering the docket numbers. Only include the numerical portion of the docket number, including dashes.
- 16. For line 15, **Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Exempt Wholesale Generator Status?**, check "Yes" or "No"; if "Yes" provide all QF docket numbers granted to the facility. Please do not include the prefix (e.g. QF, EWG, etc.) when entering the docket numbers. Only include the numerical portion of the docket number, including dashes.
- 17. For line 16a, **Owner of Transmission/Distribution Facilities**, enter the name of the current owner of the transmission or distribution facilities to which the plant is interconnected. If the plant is interconnected to multiple owners, enter the name of the principal owner and list the other owners and their roles in SCHEDULE 7. COMMENTS.
- 18. For line 16b, **Grid Voltage (in kilovolts)**, enter the grid voltage at the point of interconnection to the transmission/distribution facilities. If the plant is interconnected to multiple transmission/distribution facilities, enter the highest grid voltage and list the other grid voltages in SCHEDULE 7. COMMENTS.

#### **SCHEDULE 3. GENERATOR INFORMATION**

- 1. Verify or complete for each existing or planned generator. Complete one column for each generator (up to three generators can be reported on one page) for all generators that are: (1) in commercial operation (whether active or inactive), or (2) expected to be in commercial operation within 10 years of the specified reporting period and are either planned, under construction, or in testing stage. Do not report auxiliary generators.
- 2. To report a new generator, use a separate (blank) section of SCHEDULE 3. To report a new generator that has replaced one that is no longer in service, update the status of the generator that has been replaced along with other related information (e.g., retirement date), then use a separate (blank) section of SCHEDULE 3 to report all of the applicable data about the new generator. Each generator must be uniquely identified within a plant. The EIA cannot use the same generator ID for the new generator that was used for the generator that was replaced.

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

#### SCHEDULE 3. PART A. GENERATOR INFORMATION – GENERATORS

- 1. For line 1, **Plant Name**, enter the official or legal name of the power plant as reported on SCHEDULE 2. POWER PLANT DATA.
- For line 2, EIA Plant Code, enter the EIA plant code as reported on SCHEDULE 2. POWER PLANT DATA.
- 3. For line 3, **Operator's Generator Identification**, enter the unique generator identification commonly used by plant management. Generator identification can have a maximum of four characters, and should be the same identification as reported on other EIA forms to be uniquely defined within a plant.
- 4. For line 4, **Prime Mover**, enter one of the prime mover codes below. For combined cycle units, a prime mover code must be entered for each generator.

Prime Mover Code	Prime Mover Description
ВА	Energy Storage, Battery
CE	Energy Storage, Compressed Air
CP	Energy Storage, Concentrated Solar Power
FW	Energy Storage, Flywheel
ES	Energy Storage, Other (specify in SCHEDULE 7. COMMENTS)
ST	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)
GT	Combustion (Gas) Turbine (includes jet engine design)
IC	Internal Combustion Engine (diesel, piston, reciprocating)
CA	Combined Cycle Steam Part
СТ	Combined Cycle Combustion Turbine Part (type of coal or solid must be reported as energy source for integrated coal gasification)
CS	Combined Cycle Single Shaft (combustion turbine and steam turbine share a single generator)
CC	Combined Cycle Total Unit (use only for plants/generators that are in planning stage, for which specific generator details cannot be provided)
HA	Hydrokinetic, Axial Flow Turbine
HB	Hydrokinetic, Wave Buoy
HK	Hydrokinetic, Other (specify in SCHEDULE 7. COMMENTS)
HY	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)
PS	Hydraulic Turbine, Reversible (pumped storage)
ВТ	Turbines Used in a Binary Cycle (including those used for geothermal applications)
PV	Photovoltaic
WT	Wind Turbine, Onshore
WS	Wind Turbine, Offshore
FC	Fuel Cell
OT	Other (specify in SCHEDULE 7. COMMENTS)

Combined heat and power systems often generate steam with multiple sources and generate electric power with multiple prime movers. For reporting purposes, a simple cycle prime mover should be distinguished from a combined cycle prime mover by determining whether the power generation part of the steam system can operate independently of the rest of the steam system. If these system components cannot be operated independently, then the prime movers should be reported as combined cycle types.

5. For line 5, Associated Boiler Identifications, enter the identification (ID) code for each boiler that provides steam to each combustible-fuel steam generator (including steam generators with duct firing) with 10 MW or more nameplate capacity or each combined cycle steam turbine generator without duct firing with 100 MW or more nameplate capacity (needed to associate cooling system data with generators). Boilers may be associated with multiple generators. The identification code should, preferably, be one that is commonly used by plant management as it

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

will be used throughout all EIA forms. However, the code cannot be more than six characters long and cannot have any blanks. Combined cycle units with and without auxiliary firing should report codes for the heat recovery steam generators (HRSGs) on line 5.

- 6. For line 6, **Unit Code (Multi-Generator Code)**, identify all generators that are operated with other generators as a single unit. Generators operating as a single unit should have the same unit (multi-generator code) code or four-character identifier. Identify combined cycle generators that operate as a unit with a unique four-character identifier. All generators that operate as a unit in combined cycle must have the same unique identifier. If generators do not operate as a single unit, this space should be left blank.
- 7. For line 7, **Ownership**, identify the ownership for each generator using the following codes: "S" for single ownership by respondent, "J" for jointly owned with another entity or "W" for wholly owned by an entity other than respondent.
- 8. For line 8, **Is this generator an electric utility generator?**, an *electric utility generator* shall mean a generator that is owned by an electric utility, or a jointly owned generator with the greatest share of the generator being electric utility owned. (Note: If two or more owners have equal shares of ownership in a generator, it is considered to be an electric utility generator if any one of the owners meets the definition of electric utility). For each electric utility generator, check "Yes" or "No."
- 9. For line 9, Date of Sale, If Sold, enter the month and year of the sale of the generator (e.g., 12-2007), if the generator has been sold in its entirety. For changes in shares of ownership only, with no change in operator, report in SCHEDULE 4. OWNERSHIP OF GENERATORS OWNED JOINTLY OR BY OTHERS. In SCHEDULE 7. COMMENTS provide the legal name, business address, contact person, phone number and email address of the entity to which this generator was sold.
- 10. For line 10, **Can This Generator Deliver Power to the Transmission Grid?**, indicate if the generator can or cannot deliver power to the transmission grid.
- 11. For line 11, **if the prime mover is "CA,"** (combined-cycle steam), "CS" or "CC" check "Yes" if the unit has duct-burners for supplementary firing of the turbine exhaust gas. Otherwise, check "No."

### SCHEDULE 3, PART B. GENERATOR INFORMATION – EXISTING GENERATORS

- For line 1, Generator Nameplate Capacity, report the highest value on the nameplate in megawatts rounded to the nearest tenth as measured in alternating current (AC). If the nameplate capacity is expressed in kilovolt amperes (kVA), convert to kilowatts by multiplying the corresponding power factor by the kVA, divide by 1,000 to express in megawatts to the nearest tenth. If generator nameplate capacity is exceeded by net summer capacity, provide the reason(s) in SCHEDULE 7. COMMENTS.
- 2. For line 2, **Net Capacity**, enter the generator's net summer and net winter capacities for the primary energy. Report in alternating current (AC) megawatts, rounded to the nearest tenth. For generators that are out of service for an extended period or on standby or have no generation during the respective seasons, report the estimated capacities based on historical performance. For generators that are tested as a unit, a single aggregate net summer capacity and a single aggregate net winter capacity may be reported. For hydroelectric generators, report the instantaneous capacity at maximum waterflow. If net capacity is only available as direct current (DC), estimate the effective AC output and explain in SCHEDULE 7. COMMENTS.
- 3. For line 3a, **Maximum Expected Reactive Power Output (MVAR)**, enter the maximum reactive power outputs (MVAR) at the high side of the generator step-up transformer for generators with nameplate capacity of 10 MW or greater. A MVAR is a Mega Voltampere Reactive.
- 4. For line 3b, Maximum Reactive Power Absorption (MVAR), enter the maximum reactive power absorptions of the generator at the high side of the generator step-up transformer for generators with nameplate capacity of 10 MW or greater. A MVAR is a Mega Voltampere Reactive.

U.S. Department of Energy	ANNUAL ELECTRIC	Form Approved OMB No. 1905-0129
U.S. Energy Information Administration	GENERATOR REPORT	Approval Expires: 10/31/2013
Form EIA-860 (2011)	INSTRUCTIONS	Burden Hours: 9.4 Hours

5. For line 4, **Status Code**, enter one of the following status codes:

Status Code	Status Code Description
OP	Operating - in service (commercial operation) and producing some
	electricity. Includes peaking units that are run on an as needed (intermittent
	or seasonal) basis.
SB	Standby/Backup - available for service but not normally used (has little or no
	generation during the year) for this reporting period.
OA	Out of service – was not used for some or all of the reporting period but was
	either returned to service on December 31 or will be returned to service in
	the next calendar year.
OS	Out of service – was not used for some or all of the reporting period and is
	NOT expected to be returned to service in the next calendar year.
RE	Retired - no longer in service and not expected to be returned to service.

- 6. For line 5, **Synchronized to the Grid**, if the status code entered on line 4 is standby (SB) please note if the generator is currently equipped such that, when operating, it can be synchronized to the grid.
- 7. For line 6, Initial Date of Operation, enter the month and year of initial commercial operation.
- 8. For line 7, Retirement Date, enter the month and year that the generator was retired.
- 9. For line 8, Is this generator associated with a Combined Heat and Power system?, check either "Yes" or "No." If the answer is "Yes," check whether the generator is part of a topping or bottoming cycle, as applicable. In a topping cycle system, electricity is produced first and any waste heat from that production is used in a manufacturing process or for direct heating, and/or space heating/cooling. In a bottoming cycle system, thermal output is used in a process other than electricity production and any waste heat is then used to produce electricity.
- 10. For line 9, Predominant Energy Source, enter the energy source code for the fuel used in the largest quantity (Btus) during the reporting year to power the generator. For generators that are out of service for an extended period of time or on standby, report the energy sources based on the generator's latest operating experience. Select appropriate energy source codes from Table 1 in these instructions. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat (reject heat).
- 11. For line 9a, if the predominant energy source for powering the generator is coal or petroleum coke, check all types of technology and steam conditions that apply.
- 12. For line 10, if the prime mover is ST (steam turbine) report the **Start-Up and Flame Stabilization Energy Sources** used by the combustion unit(s) associated with this generator; otherwise leave blank.
- 13. For line 11, **Second Most Predominant Energy Source**, enter the energy source code for the energy source used in the second largest quantity (Btus) during the reporting year to power the generator. DO NOT include a fuel used only for start-up or flame stabilization. Select appropriate energy source codes from Table 1 in these instructions. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat (reject heat).
- 14. For line 12, **Other Energy Sources**, enter the codes for other energy sources: first, list the energy sources actually used in order of predominance (based on quantity of Btus), then list ones that the generator was capable of using but was not used to generate electricity during the last 12 months. For generators that are out of service for an extended period of time or on standby, report the energy sources based on the generator's latest operating experience. Select appropriate energy source codes from Table 1 in these instructions. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat (reject heat).
- 15. For line 13, Is This Generator Part of a Solid Fuel Gasification System, check "Yes" or "No"

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

as appropriate.

- 16. For line 14, Number of Turbines, Buoys, or Inverters, if energy source is wind, enter the number of turbines; if the energy source is wave energy, enter the number of buoys; if energy source is other hydrokinetics, enter the number of turbines; if the energy source is solar photovoltaic, enter the number of inverters.
- 17. For line 15a, **Tested Heat Rate**, enter the tested heat rate under full load conditions for all combustible-fueled generators, nuclear-fueled generators, concentrated solar generators and geothermal generators. Report the heat rate as the fuel consumed in British thermal units (Btus) necessary to generate one net kilowatthour of electric energy. Report the tested heat rate under full load, not the actual heat rate, which is the quotient of the total Btu(s), consumed and total net generation. If generators are tested as a unit (not tested individually), report the same test result for each generator. For generators that are out of service for an extended period or on standby, report the heat rate based on the unit's latest test. If the generator is associated with a combined heat and power (CHP) system and no tested heat rate data are available, report either the manufacturer's specification for heat rate or an estimated heat rate. DO NOT report a heat rate that includes the fuel used for the production of useful thermal output. For Internal Combustion units, a manufacturer's specification or estimated heat rate should be reported, if no tested heat rate is available. For solar photovoltaic generators, provide the average module efficiency for all installed modules. If the reported value is not a tested heat rate, specify in SCHEDULE 7. COMMENTS.
- 18. For line 15b, **Fuel Used for Heat Rate Test**, enter the fuel code or "M" for multiple fuels for the fuel used to calculate the heat rate reported above. Select appropriate energy source codes from Table 1 in these instructions. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat (reject heat).
- 19. For line 16, **Operating Efficiency for Solar Photovoltaic Generators**, enter the manufacturer's rated efficiency at standard test conditions, if available.

### **Proposed Changes to Existing Generators (within the next 10 years)**

- 20. For line 17a, indicate whether there are any planned capacity uprates/derates, repowering, other modifications, or generator retirements scheduled to take place within the next 10 years.
- 21. For line 17b, **Planned Uprates**, enter the increase in capacity expected to be realized from the uprate. Enter the planned effective date (MM-YYYY) that the generator is scheduled to enter operation after the modification.
- 22. For line 17c, **Planned Derates**, enter the decrease in capacity expected to be realized from the derate. Enter the planned effective date (MM-YYYY) that the generator is scheduled to enter operation after the modification.
- 23. For line 17d, **Planned Repowering**, if a repowering of the generator is planned, enter the new prime mover, the new energy source, and new nameplate capacity as well as the planned effective date (MM-YYYY) that the generator is scheduled to enter operation after the repowering is complete.
- 24. For line 17e, **Other Modifications**, enter the planned effective date (MM-YYYY) that the generator is scheduled to enter commercial operation after any other planned change is complete, that is not included in lines 17b through 17d. Please provide details of the planned change in SCHEDULE 7. COMMENTS. Other planned changes may include a second uprate or derate to a unit or a reactivation of a previously retired generator.
- 25. For line 17f, **Retirement**, if the generator is expected to be retired within the next 10 years, enter the planned effective date (MM-YYYY) of that scheduled retirement.
- 26. For line 18, **Can This Generator be Powered by Multiple Fuels?**, indicate if the combustion system that powers each generator has both:
  - The regulatory permits necessary to either co-fire fuels or fuel switch, and

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

 The equipment, including fuel storage facilities in working order, necessary to either co-fire fuels or fuel switch.

If the answer to this question is "No," go to SCHEDULE 3, PART C. GENERATOR INFORMATION - PROPOSED GENERATORS.

Note: **Co-firing** means the simultaneous use of two or more fuels by a single combustion system to meet load. **Fuel switching** means the ability of a combustion system running on one fuel to replace that fuel in its entirety with a substitute fuel. Co-firing and fuel switching exclude the limited use of a second fuel for start-up or flame stabilization.

- 27. For line 19, **Can This Unit Co-Fire Fuels?**, indicate whether or not the combustion system that powers the generator has, in working order, the equipment and the regulatory permits necessary to co-fire fuels. If the answer is "No," skip to line 23.
- 28. For line 20, **Fuel Options for Co-Firing**, indicate up to six fuels that can be co-fired. Select appropriate energy source codes from Table 1 in these instructions. Note: fuel options listed for co-firing must also be included under either "Predominant Energy Source" (line 9), "Second Most Predominant Energy Source" (line 11), or "Other Energy Sources (line 12).
- 29. For line 21, **Can This Generator be Powered by Co-Fired Fuel Oil and Natural Gas?**, indicate if the combustion system that powers the generator can co-fire fuel oil with natural gas. If the answer is "No," skip to line 23.
- 30. For line 22, **Can This Generator be Run on 100% Oil?**, indicate whether or not the combustion system that powers the generator can run on 100 percent oil. If the answer to this question is "Yes," skip to line 23. If it is "No," indicate the maximum percentage of the heat input to the combustion system (percent of MMBtu) that can be supplied by oil when co-firing with natural gas, taking into account all applicable legal, regulatory, and technical limits. Also provide the maximum output (summer net MW) that the unit can achieve, taking into account all applicable legal, regulatory, and technical limits when making the maximum use of oil and co-firing natural gas.
- 31. For line 23, **Can This Unit to Fuel Switch?**, indicate whether or not the combustion system that powers the generator has, in working order, the equipment necessary to fuel switch and the regulatory permits to fuel switch. If "No," skip to SCHEDULE 3, PART C, GENERATOR INFORMATION PROPOSED GENERATORS.
- 32. For line 24, **Can This Unit Switch Between Oil and Natural Gas?**, indicate whether or not the combustion system that powers the generator has, in working order, the equipment and the regulatory permits necessary to switch between oil and natural gas. If "No," go to line 26. If "Yes," indicate whether the unit can switch fuels while operating (i.e., without shutting down the unit). Also enter the maximum output (summer net MW) that the unit can achieve, taking into account all applicable legal, regulatory, and technical limits, when running on natural gas, the maximum output (summer net MW) that the unit can achieve, taking into account all applicable legal, regulatory, and technical limits, when running on oil, and how long it takes to switch the generator from using 100 percent natural gas to 100 percent oil.
- 33. For line 25, Are There Factors That Limit the Unit's Ability to Switch From Natural Gas to Oil?, indicate whether or not there are factors that limit the operation of the generator (e.g., limits on maximum output, limits on annual operating hours), when running on 100 percent oil. Check all factors that limit the ability of this generator to switch from natural gas to oil.
- 34. For line 26, **Fuel Switching Options**, enter the codes for up to six fuels, including (if applicable) oil and natural gas, which can be used as a sole source of fuel to power the generator. Select appropriate energy source codes from the table in these instructions. Note: Fuel options listed for fuel switching must also be included under either "Predominant Energy Source" (line 9), "Second Most Predominant Energy Source" (line 11), or "Other Energy Sources (line 12).

SCHEDULE 3, PART C. GENERATOR INFORMATION – PROPOSED GENERATORS

U.S. Department of Energy
U.S. Energy Information Administration
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

- 1. For line 1, Generator Nameplate Capacity, enter the highest value on the nameplate in megawatts rounded to the nearest tenth as measured in alternating current (AC). If the nameplate capacity is expressed in kilovolt amperes (kVA), convert to kilowatts by multiplying the corresponding power factor by the kVA, divide by 1,000 to express in megawatts to the nearest tenth. If the generator nameplate is not known at this time, estimate the nameplate rating for the generator and note this as an estimate in SCHEDULE 7. COMMENTS.
- 2. For line 2, **Net Capacity**, enter the generator's net summer and net winter capacities for the primary energy source. Report in alternating current (AC) megawatts rounded to the nearest tenth that are expected when the generator goes into commercial operation.
- 3. For line 3a, **Maximum Expected Reactive Power Output (MVAR)**, enter the maximum expected reactive power outputs (MVAR) at the high side of the generator step-up transformer for generators with nameplate capacity of 10 MW or greater. A MVAR is a Mega Voltampere Reactive.
- 4. For line 3b, Maximum Reactive Power Absorption (MVAR), enter the maximum expected reactive power absorptions of the generator at the high side of the generator step-up transformer for generators with nameplate capacity of 10 MW or greater. A MVAR is a Mega Voltampere Reactive.
- 5. For line 4, **Status Code**, enter one of the following status codes:

Status Code	Status Code Description
IP	Planned new generator canceled, indefinitely postponed, or no longer in resource plan
TS	Construction complete, but not yet in commercial operation (including low power testing of nuclear units)
Р	Planned for installation but regulatory approvals not initiated; Not under construction
L	Regulatory approvals pending. Not under construction but site preparation could be underway
Т	Regulatory approvals received. Not under construction but site preparation could be underway
U	Under construction, less than or equal to 50 percent complete (based on construction time to date of operation)
V	Under construction, more than 50 percent complete (based on construction time to date of operation)
OT	Other (specify in SCHEDULE 7. COMMENTS)

- 6. For line 5, **Planned Original Effective Date**, enter the month and year of the original effective date that: 1) the generator was scheduled to start operation after construction is completed. (Please note that this date does not change once it has been reported the first time.)
- 7. For line 6, **Planned Current Effective Date**, enter the month and year of the current effective date that the generator is scheduled to start operation.
- 8. For line 7, **Will This Generator be Associated with a Combined Heat and Power System?** Check either "Yes" or "No."
- 9. For line 8, Will This Generator be Part of a Solid Fuel Gasification System?, check "Yes" or "No," as appropriate.
- 10. For line 9, indicate if this generator is part of a site that was previously reported by either your company or a previous owner as an indefinitely postponed or cancelled plant.
- 11. For line 10, **Expected Predominant Energy Source**, enter the energy source code for the energy source expected to be used in the largest quantity (Btus) when the generator starts commercial operation. Select appropriate energy source codes from Table 1 in these instructions.
- 12. For line 11, if the expected predominant energy source for powering the generator is coal or petroleum coke, check all the types of technology and steam conditions that apply.

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

- 13. For line 12, **Expected Second Most Predominant Energy Source**, enter the energy source code for the energy sources expected to be used in the second largest quantity (Btus) when the generator starts commercial operation. Select appropriate energy source codes from Table 1 in these instructions. Do not include fuels expected to be used only for start-up or flame stabilization.
- 14. For line 13, **Other Energy Source Options**, enter the codes for other energy sources that will be used at the plant to power the generator. Enter up to four codes in order of their expected predominance of use, where predominance is based on quantity of Btu(s) to be consumed. Select appropriate energy source codes from Table 1 in these instructions.
- 15. For line 14, **Number of Turbines, Buoys, or Inverters**, if the energy source will be wind, enter the number of turbines; if the energy source will be wave energy, enter the number of buoys; if the energy source will be other hydrokinetics, enter the number of turbines; if the energy source will be solar photovoltaic, enter the number of inverters.
- 16. For line 15, **Will This Generator be Able to be Powered by Multiple Fuels?**, indicate if the combustion system that will power each generator will have both:
  - The regulatory permits necessary to either co-fire fuels or fuel switch, and
  - The equipment, including fuel storage facilities, in working order, necessary to either co-fire fuels or fuel-switch.

If the answer is "No" or "Undetermined", go to SCHEDULE 4. OWNERSHIP OF GENERATORS OWNED JOINTLY OR BY OTHERS.

Note: **Co-firing** means the simultaneous use of two or more fuels by a single combustion system to meet load. **Fuel switching** means the ability of a combustion system running on one fuel to replace that fuel in its entirety with a substitute fuel. Co-firing and fuel switching exclude the limited use of a second fuel for start-up or flame stabilization.

- 17. For line 16, **Will this Unit be Able to Co-Fire Fuels?**, indicate whether or not the combustion system that will power the generator will have the equipment necessary to co-fire fuels and the regulatory permits to co-fire fuels. If "No," skip to line 20.
- 18. For line 17, Fuel Options for Co-Firing, indicate up to six fuels that the generator will be designed to co-fire. Select appropriate energy source codes from Table 1 in these instructions. Note: fuel options listed for co-firing must also be included under either "Predominant Energy Source" (line 9a), "Second Most Predominant Energy Source" (line 11), or "Other Energy Sources (line 13).
- 19. For line 18, Will This Generator be Able to be Powered by Co-Fired Fuel Oil and Natural Gas?, indicate if the combustion system that powers the generator will be able to co-fire fuel oil with natural gas. If it cannot, skip to line 20.
- 20. For line 19, **Will This Generator be able to Run on 100% Oil?**, indicate whether or not the combustion system that will power the generator can run on 100 percent oil. If "Yes," skip to line 20, if "No," indicate the maximum percentage of the heat input to the combustion system (percent of MMBtu) that will be able to be supplied by oil when co-firing with natural gas. Also provide the maximum output (summer net MW) that the unit is expected to achieve, taking into account all applicable legal, regulatory, and technical limits, when making the maximum use of oil and co-firing natural gas.
- 21. For line 20, **Will This Unit be Able to Fuel Switch?**, indicate whether or not the combustion system that will power the generator will have the equipment necessary to fuel switch and have the regulatory permits to fuel switch. If "No," then skip to SCHEDULE 4. OWNERSHIP OF GENERATORS OWNED JOINTLY OR BY OTHERS.
- 22. For line 21, **Will This Unit be Able to Switch Between Oil and Natural Gas?**, indicate whether or not the combustion system that will power the generator will have the necessary equipment and the regulatory permits in place to switch between oil and natural gas. If "No," skip to line 23. If "Yes," indicate whether the unit will be able to switch fuels while operating (i.e., without shutting down the unit). Also enter the maximum output (summer net MW) that the unit is

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

expected to achieve, taking into account all applicable legal, regulatory, and technical limits, when running on natural gas, the maximum output (summer net MW) that the unit is expected to achieve, taking into account all applicable legal, regulatory, and technical limits, when running on oil, and how long it is expected to take to switch the generator from using 100 percent natural gas to 100 percent oil.

- 23. For line 22, Limits Are There Factors That Will Limit the Unit's Ability to Switch From Natural Gas to Oil?, indicate whether or not there will be factors that will limit the operation of the generator (e.g., limits on maximum output, limits on annual operating hours), when running on 100 percent oil. Check all factors that will limit the ability of this generator to switch from natural gas to oil.
- 24. For line 23, **Fuel Switching Options**, enter the codes for up to six fuels, including (if applicable) oil and natural gas, that can be used as a sole source of fuel to power each generator. Select appropriate energy source codes from Table 1 in these instructions. Note: fuel options listed for fuel switching must also be included under either "Predominant Energy Source" (line 10), "Second Most Predominant Energy Source" (line 12), or "Other Energy Sources (line 13).

#### SCHEDULE 4. OWNERSHIP OF GENERATORS OWNED JOINTLY OR BY OTHERS

- Complete a separate SCHEDULE 4 for each existing and planned generator operated by the
  respondent that is, or will be, jointly owned; and each generator that the respondent operates
  but is 100 percent owned by another entity. Only the current or planned operator of jointlyowned generators should complete this schedule. The total percentage of ownership must equal
  100 percent.
- 2. For each generator, specify the **Plant Name**, **EIA Plant Code**, **and Generator Identification**, as listed on SCHEDULE 3, PART A. GENERATOR INFORMATION GENERATORS.
- 3. Enter the Owner/Joint Owner Name and Address, in order of percentage of ownership, of each generator. Enter the EIA Code for the owner, if known, otherwise leave blank. Enter the Percent Owned to two decimal places, i.e., 12.5 percent as "12.50." If a generator is 100 percent owned by an entity other than the operator, then enter the percentage ownership as "100.00."
- 4. Include any notes or comments in SCHEDULE 7. COMMENTS.

### SCHEDULE 5. NEW GENERATOR INTERCONNECTION INFORMATION

- 1. Complete a separate SCHEDULE 5 for each generator that started commercial operation during the data year (calendar year for which this survey is being filed). For example, if Reporting is as of December 31, 2007, then data year is 2007.
- 2. For line 1, enter the **Name of the Power Plant** and the **EIA Power Plant Code**, as previously reported in SCHEDULE 3, PART A, GENERATOR INFORMATION GENERATORS.
- 3. For line 2, enter the **Generator ID**, as previously reported in SCHEDULE 3, PART A, GENERATOR INFORMATION GENERATORS.
- 4. For line 3, **Date of Actual Generator Interconnection**, report the month and year that the interconnection was put into place.
- 5. For line 4, **Date of Initial Interconnection Request**, report the month and year that the first request for interconnection was filed with the grid operator.
- 6. For line 5, **Interconnection Site Location**, specify the nearest city or town, and the state, where the interconnection equipment is located.
- 7. For line 6, **Grid Voltage at the Point of Interconnection**, specify the grid voltage, in kV, at the point of interconnection between the generator and the grid.
- 8. For line 7, **Owner of the Transmission or Distribution Facilities to Which Generator is Interconnected,** provide the name of the owner of the transmission or distribution facilities to

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

which the generator is interconnected. If the name of the owner of the facilities is unknown, provide the name of the contracting party.

- 9. For line 8, **Total Cost Incurred for the Direct, Physical Interconnection**, specify the total cost incurred, in thousands of dollars, to accomplish the physical interconnection.
- 10. For line 9, **Equipment Included in the Direct Interconnection Cost**, check each of the types of equipment that are included in the cost amount reported on line 8. If there are significant types of equipment that are not included in the list, please specify what additional equipment was needed for the interconnection in SCHEDULE 7. COMMENTS.
- 11. For line 10, (a) Total Cost for Other Grid Enhancements/Reinforcements Needed to Accommodate Power Deliveries From the Generator, specify the amount incurred, in thousands of dollars, for any other grid enhancements or reinforcements that were needed to accommodate power deliveries from the new generator. If these costs, or some portion of these costs, will be repaid to your company at some time in the future by the owner of the grid, or by the party with whom you contracted for the interconnection, please check "Yes" in line 10b; otherwise, check "No" in 10b.
- 12. For line 11, Were Specific Transmission Use Rights Secured As A Result Of The Interconnection Costs Incurred, check "Yes" or "No."

#### **SCHEDULE 6. BOILER INFORMATION**

This schedule is required to be completed for all existing and planned (10 year plans) combustible-fueled steam generators (including heat recovery steam generators with and without duct firing and combustible renewable-fueled generators), all nuclear generators and applicable solar thermal generators with a total generator nameplate capacity of at least 10 megawatts.

PART B, PART C, PART F, and PART I are only to be completed by those generators that meet the conditions above that have a total generator nameplate capacity of at least 100 megawatts.

Nuclear generators, steam generators without duct firing, and applicable solar generators using a steam cycle should complete PART F only.

### **SCHEDULE 6, PART A. PLANT CONFIGURATION**

The e-file system will pre-populate the boiler identification codes throughout SCHEDULE 6 based on the codes entered in SCHEDULE 3, PART A. Plants with a Steam Plant Type of 1, as defined and set on line 11 of SCHEDULE 2, should complete all lines on SCHEDULE 6, PART A. Plants with a Steam Plant Type of 2 should only complete lines 2, 3, and, if applicable, lines 5 and 6. Plants with a Steam Plant Type of 3 should complete lines 2, 3 and 4. Planned equipment that is on order and expected to go into commercial service within 10 years must be reported. If two or more pieces of equipment (e.g., two generators) are associated with a single boiler, report each identification code, separated by commas, under the appropriate boiler. Do not change pre-populated equipment identifications.

- 1. For line 1, using each boiler as a starting point, complete the entire column under the boiler identification with the requested information on each piece of associated existing or planned equipment (e.g., generators, cooling systems, etc.).
- 2. For lines 2, 4, 5, 6, 7, and 8, if a piece of equipment (e.g., a generator or a cooling system) serves two or more boilers, repeat the identification information for that equipment under each appropriate boiler.
- 3. For line 2, **Associated Generator ID(s)**, do not report auxiliary generators. Multiple generators operated as a single unit (e.g., cross compound and topping generators) should be identified as a group with one identification code. Combined cycle units with auxiliary firing report only the steam generators. Do not report the combustion turbine portion of the combined cycle unit.
- 4. For line 3, **Generator Associations with Boiler as Actual or Theoretical,** indicate "A" for actual association during year or "T" for theoretical associations.

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

- 5. For line 4, **Associated Cooling System ID(s)**, a cooling system is an equipment system that provides water to the condensers and includes water intakes and outlets, cooling towers and ponds, pumps, and pipes. Identify a single plant cooling system, not separate systems, unless systems are physically separated, e.g., have separate water intake and outlet structures, where each system can be operated independently.
- 6. For line 5, **Associated Flue Gas Particulate Collector ID(s)**, if a combination particulate collector is associated with a single boiler, identify the collectors as a single group. If the particulate collector also removes sulfur dioxide, identify the unit in lines 5 and 6 using the same identification code.
- 7. For line 6, **Associated Flue Gas Desulfurization Units ID(s)**, for reporting purposes identify an associated flue gas desulfurization unit to include all the trains (or modules) associated with a single boiler. If the flue gas desulfurization unit also removes particulate matter, identify the unit in lines 5 and 6 using the same identification code.
- 8. For line 7, **Associated Flue ID(s)**, a flue is defined as an enclosed passageway within a stack for directing products of combustion to the atmosphere. For stacks with multiple flues, report in one column all flues that serve the boiler identified in line 1. Separate multiple entries with commas. If the stack has a single flue, use the stack identification for the flue identification.
- 9. For line 8, **Associated Stack ID(s)**, a stack is defined as a tall, vertical structure containing one or more flues used to discharge products of combustion into the atmosphere.

### SCHEDULE 6, PART B. BOILER INFORMATION – AIR EMISSION STANDARDS (DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW)

- 1. Complete a separate page for each existing or planned boiler as reported on SCHEDULE 6, PART A, line 1.
- 2. For line 2a, **Type of Boiler Standards Under Which the Boiler Is Operating**, indicate the standards as described in the U.S. Environmental Protection Agency regulation under 40 CFR. Select from the following codes of the New Source Performance Standards (NSPS):

D	Standards of Performance for fossil-fuel fired steam boilers for which
	construction began after August 17, 1971.
Da	Standards of Performance for fossil-fuel fired steam boilers for which
	construction began after September 18, 1978.
Db	Standards of Performance for fossil-fuel fired steam boilers for which
	construction began after June 19, 1984.
Dc	Standards of Performance for small industrial-commercial-institutional steam
	generating units.
N	Not covered under New Source Performance Standards.

- 3. For line 2b, **Is Boiler Operating Under a New Source Review (NSR) Permit?**, check "Yes" or "No"; if "Yes," enter date and identification number of the issued permit.
- 4. For line 3, **Type of Statute or Regulation**, select from the following the most stringent type of statute or regulation code:
  - FD Federal ST State
  - LO Local
  - NA No Applicable Standard
- 5. For line 4, **Emission Standard Specified**, refer to the numeric value for the unit of measurement in line 5. If no numeric value is specified, report "NA." For Sulfur Dioxide (column (b)), if the standard requires both an emission rate and a percent scrubbed, report the emission rate in terms of pounds of sulfur dioxide per million Btu on line 4a and report the percent scrubbed in terms of percent sulfur removal efficiency (by weight) on line 4b.

6. For line 5, **Unit of Measurement Specified**, column (a), Particulate Matter, select from the following unit of measurement codes (PB\* is the preferred measurement):

Code	Unit of Measurement
OP	Percent of opacity
PB*	Pounds of Particulate matter per million Btu in fuel
PC	Grains of particulate matter per standard cubic foot of stack gas
PG	Pounds of particulate matter per thousand pounds of stack gas
PH	Pounds of particulate matter emitted per hour
UG	Micrograms of particulate matter per cubic meter
OT	Other (specify in SCHEDULE 7. COMMENTS)

7. For line 5, **Unit of Measurement Specified**, column (b), Sulfur Dioxide, select from the following unit of measurement codes (DP\* is the preferred measurement):

Code	Unit of Measurement
DC	Ambient air quality concentration of sulfur dioxide (parts per million)
DH	Pounds of sulfur dioxide emitted per hour
DL	Annual sulfur dioxide emission level less than a level in a previous
	year
DM	Parts per million of sulfur dioxide in stack gas
DP*	Pounds of sulfur dioxide per million Btu in fuel
SB	Pounds of sulfur per million Btu in fuel
SR	Percent sulfur removal efficiency (by weight)
SU	Percent sulfur content of fuel (by weight)
OT	Other (specify in SCHEDULE 7. COMMENTS)

8. For line 5, **Unit of Measurement Specified**, column (c), Nitrogen Oxides, select from the following unit of measurement codes (NP\* is the preferred measurement):

Code	Unit of Measurement
NH	Pounds of nitrogen oxides emitted per hour
NL	Annual nitrogen oxides emission level less than a level in a previous
	year
NM	Parts per million of nitrogen oxides in stack gas
NO	Ambient air quality concentration of nitrogen oxides (parts per
	million)
NP*	Pounds of nitrogen oxides per million Btu in fuel
OT	Other (specify in SCHEDULE 7. COMMENTS)

9. For line 6, **Time Period Specified**, select from the following codes to indicate the period over which measurements were averaged:

Code	Time Period
NV	Never to exceed
FM	5 minutes
SM	6 minutes
FT	15 minutes
OH	1 hour
WO	2 hours
TH	3 hours
EH	8 hours
DA	24 hours
WA	1 week
MO	30 days
ND	90 days
YR	Annual

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

PS	Periodic stack testing
DT	Defined by testing
NS	Not specified
OT	Other (specify in SCHEDULE 7. COMMENTS)

- 10. For line 7, Year Boiler Was or Is Expected to Be in Compliance With Federal, State and/or Local Regulations, if the boiler is currently in compliance, enter the year the boiler came into compliance or the year of the regulation, whichever came last. Report "9999" only if a revision of a governing regulation is being sought or no plans have been approved to bring the boiler into compliance.
- 11. For line 8, **If Not in Compliance**, **Strategy for Compliance**, select from the following strategy for compliance codes (separate multiple entries (up to three) with commas):

Code	Strategy for Compliance
ВО	Burner out of service
FR	Flue gas recirculation
LA	Low excess air
LN	Low nitrogen oxide burner
MS	Currently meeting standard
NC	No plans to control
OV	Overfire air
SE	Seeking revision of governing regulation
OT	Other (specify in SCHEDULE 7. COMMENTS)

12. For line 9, Existing, and line 10, Planned Strategies to Meet the Sulfur Dioxide and Nitrogen Oxides Requirements of Title IV of the Clean Air Act Amendment of 1990, column (b), select from the following strategy for compliance codes (separate multiple entries (up to three) with commas):

Code	Strategy for Compliance (Sulfur Dioxide)
CF	Fluidized Bed Combustor
CU	Control unit under Phase I extension plan
IF	Install flue gas desulfurization unit (other than Phase I extension plan)
NC	No change in historic operation of unit anticipated
ND	Not determined at this time
RP	Repower Unit
SS	Switch to lower sulfur fuel
SU	Designate Phase II unit(s) as substitution unit(s)
TU	Transfer unit under Phase I extension plan
UC	Decrease utilization - designate Phase II unit(s) as compensating unit(s)
UE	Decrease utilization - rely on energy conservation and/or improved efficiency
US	Decrease utilization - designate sulfur-free generators to compensate
UP	Decrease utilization - purchase power
WA	Allocated allowances and purchase allowances
OT	Other (specify in SCHEDULE 7. COMMENTS)

Code	Strategy for Compliance (Nitrogen Oxides)
AA	Advanced Overfire Air
BF	Biased Firing (alternative burners)
CF	Fluidized Bed Combustor
FR	Flue Gas Recirculation
FU	Fuel Reburning
H2O	Water Injection
LA	Low Excess Air

LN	Low NOx Burner
NH3	Ammonia Injection
NC	No change in historic operation of unit anticipated
ND	Not determined at this time
OV	Overfire Air
RP	Repower Unit
SC	Slagging
SN	Selective Noncatalytic Reduction
SR	Selective Catalytic Reduction
STM	Steam Injection
UE	Decrease utilization - rely on energy conservation and/or improved
	efficiency
NA	Not Applicable
OT	Other (specify in SCHEDULE 7. COMMENTS)

### SCHEDULE 6, PART C. BOILER INFORMATION – DESIGN PARAMETERS (DATA FOR LINES 3 – 18 NOT REQUIRED FOR PLANTS LESS THAN 100 MW)

- 1. Complete for each existing or planned boiler as reported on SCHEDULE 6, PART A, line 1. If a procurement contract has been signed for an upgrade or retrofit of a boiler: 1) complete a separate page for the existing boiler; 2) explain In SCHEDULE 7. COMMENTS how long the existing equipment will be out of service; and 3) using the same boiler identification, complete a separate SCHEDULE 6, PART C for the planned upgrade or retrofit.
- 2. For line 2, enter boiler status. Select from the following codes.

Code	Boiler Status
CN	Cancelled (previously reported as "planned")
CO	New unit under construction
OP	Operating (in commercial service or out of service less than 365 days)
OS	Out of service (365 days or longer)
PL	Planned (expected to go into commercial service within 10 years)
RE	Retired (no longer in service and not expected to be returned to service)
SB	Standby (or inactive reserve); i.e., not normally used, but available for service
SC	Cold Standby (Reserve); deactivated (usually requires 3 to 6 months to reactivate)
TS	Operating under test conditions (not in commercial service)

- 3. For line 3, **Boiler Actual or Projected In-service Date**, and line 4, **Boiler Actual or Projected Retirement Date**, the month-year date should be entered as follows: August 1959 as 08-1959. If the month is unknown, use the month of June.
- 4. For line 5, **Boiler Manufacturer**, select one code from the following boiler manufacturers' codes:

Code	Boiler Manufacturer
Al	Aalborg Industries
AL	Alstrom
AS	American Shack
AT	Applied Thermal Systems
BR	BROS
BW	Babcock and Wilcox
DJ	De Jong Coen by
CE	Combustion Engineering
CN	Coen
DL	Deltak
DS	Doosan
EC	Econotherm

U.S. Department of Energy	ANNUAL ELECTRIC
U.S. Energy Information Administration	GENERATOR REPORT
Form EIA-860 (2011)	INSTRUCTIONS

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

ER	Erie City Iron Works
ET	Entek
FW	Foster Wheeler
GE	General Electric
GT	Gotaverken
HT	Hitachi
ID	Indeck
IH	In House Design
IHI	Ishikawajima-Harima Heavy Industries
IS	Innovative Steam Technology
KL	Keeler Dorr Oliver
KP	Kvaerner Pulping
KW	Kawasaki Heavy Industries
ME	Mitchell Engineering
NB	Nebraska Boiler
NM	NEM
NT	Nooter/Erickson
PB	Peabody
PR	Pyro Power
RS	Riley Stoker
ST	Sterling
TM	Tampell
TS	Toshiba
VO	Vogt Machine Company/Vogt Power
WE	Westinghouse
WG	Wiegl Engineering
WI	Wickes
ZN	Zurn
OT	Other (specify in SCHEDULE 7. COMMENTS)

5. For line 6, **Type of Firing Used with Primary Fuels**, select from the following firing codes (separate multiple entries (up to three) with commas):

Firing	Firing Type Description
Code	
AF	Arch Firing
CB	Cell Burner
CF	Concentric Firing
CY	Cyclone Firing
DB	Duct Burner
FB	Fluidized Bed Firing
FF	Front Firing
OF	Opposed Firing
RF	Rear Firing
SF	Side Firing
SS	Spreader Stoker
TF	Tangential Firing
VF	Vertical Firing
OT	Other (specify in SCHEDULE 7. COMMENTS)

- 6. For lines 8 through 11, enter firing rate data for primary fuels as entered in line 13. Do not enter firing rate for startup or flame stabilization fuels. For waste-heat boilers with auxiliary firing, enter the firing rate for auxiliary firing and complete line 12 for waste heat.
- 7. For line 12, a waste-heat boiler is a boiler that receives all or a substantial portion of its energy input from the noncombustible exhaust gases of a separate fuel-burning process.

U.S. Department of Energy
U.S. Energy Information Administration
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

- 8. For line 13, **Primary Fuels Used**, see table of energy source (fuel) codes. Show design firing rates for each fuel in the associated lines 8, 9, 10, and 11. Do not include startup fuels. Predominance is based on Btu.
- 9. For line 16, **Total Air Flow**, report at standard temperature and pressure, i.e., 68 degrees Fahrenheit and one atmosphere pressure.
- 10. For line 17, Wet or Dry Bottom, enter "W" for Wet or "D" for Dry. Wet Bottom is defined as slag tanks that are installed at furnace throat to contain and remove molten ash from the furnace. Dry Bottom is defined as having no slag tanks at furnace throat area; throat area is clear; bottom ash drops through throat to bottom ash water hoppers. This design is used where the ash melting temperature is greater than the temperature on the furnace wall, allowing for relatively dry furnace wall conditions.

### SCHEDULE 6, PART D. BOILER INFORMATION - NITROGEN OXIDE EMISSION CONTROLS

- 1. Complete a separate page for each existing or planned boiler.
- 2. For line 2, Nitrogen Oxide Control Status, select from the following status codes:

Code	Control Status
CN	Cancelled (previously reported as "planned")
CO	New unit under construction
OP	Operating (in commercial service or out of service less than 365 days)
os	Out of service (365 days or longer)
OZ	Operated during the ozone season (May through September)
PL	Planned (expected to go into commercial service within 10 years)
RE	Retired (no longer in service and not expected to be returned to service)
SB	Standby (or inactive reserve); i.e., not normally used, but available for service
SC	Cold Standby (Reserve); deactivated (usually requires 3 to 6 months to
	reactivate)
TS	Operating under test conditions (not in commercial service)

3. For line 3, **Low Nitrogen Oxide Control Process**, select from the following low nitrogen oxide control processes (separate multiple entries (up to three) with commas):

Code	Control Process
AA	Advanced Overfire Air
BF	Biased Firing (alternative burners)
CF	Fluidized Bed Combustor
FR	Flue Gas Recirculation
FU	Fuel Reburning
H2O	Water Injection
LA	Low Excess Air
LN	Low NOx Burner
NA	Not Applicable
NH3	Ammonia Injection
OV	Overfire Air
SC	Slagging
SN	Selective Noncatalytic Reduction
SR	Selective Catalytic Reduction
STM	Steam Injection
NC	No change in historic operation of unit anticipated
RP	Repower Unit
UE	Decrease utilization - rely on energy conservation and/or improved
	efficiency
OT	Other (specify in SCHEDULE 7. COMMENTS)

4. For line 4, **Manufacturer of Low Nitrogen Oxide Control Burners**, select from the following low nitrogen oxide control burner manufacturers:

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

	INSTRUCTIONS Builden Hours, 9.4 Hours
Code	Manufacturer
AB	Advanced Burner Technologies
ABB	ABB
AC	Advanced Combustion Technology
AL	
	Alstom
AP	AirPol
AT	Applied Thermal Systems
AU	Applied Utility Systems (AUS)
AZ	Alzeta
BC	Babcock Borsig Power
BM	Bloom
BMD	Burns & McDonnell
BW	Babcock and Wilcox
CE	Combustion Engineering
CM	Combustion Components Associates Inc
CN	Coen
CSI	Combustion Solutions Inc
CT	Callidus Technologies
DB	Deutsche-Babcock
DD	Damper Design Inc
DQ	Duquesne Light Company & Energy Systems Associates
DV	Davis
DX	Deltex
EA	Eagle Air
EG	Energy and Environmental Research Corp (EER)
EL	Electric Power Technologies
EP	EPRI
ET	Entek
ETE	Entropy Technology and Environmental Construction Corp (ETEC)
FB	Faber
FN	Forney
FT	Fuel Tech Inc
FW	Foster Wheeler
GE	General Electric
GR	GE Energy and Environmental Research Corp (GEEER)
HL	Holman
HT	Hitachi
IC	International Combustion Limited
ID	Indeck
IH	In House Design
JZ	John Zink Todd Combustion/Todd Combustion
KL	Keeler Dorr Oliver
MB	Mitsui-Babcock
MI	Mitsubishi Industries
MT	Mobotec
NA	Not Applicable
NB	Nebraska Boiler
NC	Natcom, Inc
NE	NEI Neall lea
NL	Noell, Inc
PA	Procedair
PB	Peabody
PS	Peerless Manufacturing Company
PL	Pillard
PX	Phoenix Combustion

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

RD	Rodenhuis and Verloop
RI	Riley
RJ	RJM
RR	Rolls Royce
RS	Riley Stoker/Riley Power
RV	RV Industries
SC	Southern Company
SW	Siemans-Westinghouse
TC	Todd Combustion
TEC	Thermal Equipment Corporation
TM	Tampella
TS	Toshiba
WG	Weigel Engineering
ZC	Zeeco
OT	Other (specify in SCHEDULE 7. COMMENTS)

### SCHEDULE 6, PART E. BOILER INFORMATION - MERCURY EMISSION CONTROLS

1. For line 2, if "Yes" is checked on line 1, enter all applicable mercury emissions controls codes, separated by commas, from the following list:

Code	Mercury Emission Control
ACI	Activated Carbon Injection System
BS	Baghouse, shake and deflate
BP	Baghouse, pulse
BR	Baghouse, reverse air
DS	Dry Scrubber
EC	Electrostatic precipitator, cold side, with flue gas conditioning
EH	Electrostatic precipitator, hot side, with flue gas conditioning
EK	Electrostatic precipitator, cold side, without flue gas conditioning
EW	Electrostatic precipitator, hot side, without flue gas conditioning
FGD	Flue Gas Desulfurization
LIJ	Lime Injection
WS	Wet Scrubber
OT	Other (specify in SCHEDULE 7. COMMENTS)

### SCHEDULE 6, PART F. COOLING SYSTEM INFORMATION – DESIGN PARAMETERS (DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW)

- If a procurement contract has been signed for an upgrade or retrofit of a cooling system: 1) complete a separate page for the existing cooling system; 2) specify in SCHEDULE 7.
   COMMENTS how long the existing equipment will be out of service; and 3) using the same cooling system identification, complete a separate SCHEDULE 6, PART F. COOLING SYSTEM INFORMATION DESIGN PARAMETERS for the planned upgrade or retrofit.
- 2. For line 2, Cooling System Status, select from the following equipment status codes:

Code	System Status
CN	Cancelled (previously reported as "planned")
CO	New unit under construction
OP	Operating (in commercial service or out of service less than 365 days)
OS	Out of service (365 days or longer)
PL	Planned (expected to go into commercial service within 10 years)
RE	Retired (no longer in service and not expected to be returned to service)
SB	Standby (or inactive reserve); i.e., not normally used, but available for
	service)
SC	Cold Standby (Reserve); deactivated (usually requires 3 to 6 months to

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

	reactivate)
TS	Operating under test conditions (not in commercial service)

3. For line 4a, **Type of Cooling System**, select from the following cooling system codes (separate multiple entries (up to four) with commas):

Code	Cooling System Description
DC	Dry (air) cooling system
HRC	Hybrid: recirculating cooling pond(s) or canal(s) with dry cooling
HRF	Hybrid: recirculating with forced draft cooling tower(s) with dry cooling
HRI	Hybrid: recirculating with induced draft cooling tower(s) with dry cooling
OC	Once through with cooling pond(s) or canal(s)
OF	Once through, fresh water
OS	Once through, saline water
RC	Recirculating with cooling pond(s) or canal(s)
RF	Recirculating with forced draft cooling tower(s)
RI	Recirculating with induced draft cooling tower(s)
RN	Recirculating with natural draft cooling tower(s)
OT	Other (specify in SCHEDULE 7. COMMENTS)

- 4. For line 4b, in the case of a hybrid cooling system, indicate the percent of total cooling load that is served by any dry cooling components.
- 5. For line 5a, **Source of Cooling Water**, provide name of river, lake, etc. For line 5b, select the **Type of Cooling Water Source** from the following codes:

Code	Type of Water Source
SW	Surface Water (ex: river, canal, bay)
GW	Ground Water (ex: aquifer, well)
PD	Plant Discharge Water (ex: wastewater treatment plant discharge)
OT	Other (specify in SCHEDULE 7. COMMENTS)

6. For line 5c, **Type of Cooling Water**, select the **Type of Cooling Water** from the following codes:

Code	Type of Water
BR	Brackish Water
FR	Fresh Water
TW	Treated Wastewater
SA	Saline Water
OT	Other (specify in SCHEDULE 7. COMMENTS)

- 7. For line 6, **Design Cooling Water Flow Rate at 100 percent Load at Intake**, if more than one source of cooling water is used by a cooling system, enter other sources in a footnote in SCHEDULE 7. COMMENTS. If water is purchased, report "municipal." If water is taken from wells, report "wells." If source of water is "municipal" or "wells," do not complete lines 19, 20, 21, and 22 and provide the total amount of water used at 100 percent load in line 6.
- 8. For lines 8, 9, and 10, a cooling pond is a natural or man-made body of water that is used for dissipating waste heat from power plants.
- 9. For line 12, **Type of Towers**, select from the following cooling tower codes (separate multiple entries (up to two) with commas):

Code	Type of Towers
MD	Mechanical draft, dry process

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129
Approval Expires: 10/31/2013
Burden Hours: 9.4 Hours

MW	Mechanical draft, wet process
ND	Natural draft, dry process
NW	Natural draft, wet process
WD	Combination wet and dry processes
OT	Other (specify in SCHEDULE 7. COMMENTS)

- 10. For lines 15, 16, 17, and 18, enter the actual installed cost for the existing system or the anticipated cost to bring a planned system into commercial operation. Installed cost should include the cost of all major modifications. A major modification is any physical change which results in a change in the amount of air or water pollutants or which results in a different pollutant being emitted.
- 11. For line 15, **Total System**, the cost should include amounts for items such as pumps, piping, canals, ducts, intake and outlet structures, dams and dikes, reservoirs, cooling towers, and appurtenant equipment. The cost of condensers should not be included.
- 12. For lines 19 through 22, if the cooling system is a zero discharge type (RC, RF, RI, RN), do not complete column (b). The intake and the outlet are the points where the cooling system meets the source of cooling water found on line 5. For all longitude and latitude coordinates, provide degrees, minutes, and seconds.
- 13. For line 23, Enter Datum for the above Latitude and Longitude, if Known; Otherwise Enter "UNK": The longitude and latitude measurement for a location depends in part on the coordinate system (or "datum") the measurement is keyed to. "Datum systems" used in the United States include the North American Datum 1927 (NAD27), North American Datum 1983 (NAD83) and World Geodetic Survey 1984 (WGS84).

### SCHEDULE 6, PART G. FLUE GAS PARTICULATE COLLECTOR INFORMATION

 For line 3, Flue Gas Particulate Collector Status, select from the following equipment status codes:

Code	Status
CN	Cancelled (previously reported as "planned")
CO	New unit under construction
OP	Operating (in commercial service or out of service within 365 days)
OS	Out of service (365 days or longer)
PL	Planned (expected to go into commercial service within 10 years)
RE	Retired (no longer in service and not expected to be returned to service)
SB	Standby (or inactive reserve, i.e., not normally used, but available for service)
SC	Cold Standby (Reserve); deactivated. Usually requires 3 to 6 months to reactivate
TS	Operating under test conditions (not in commercial service).

For line 4, Type of Flue Gas Particulate Collector, select from the following flue gas
particulate collector codes (for combination units, separate multiple entries (up to three) with
commas):

Code	Description
BS	Baghouse, shake and deflate
BP	Baghouse, pulse
BR	Baghouse, reverse air
EC	Electrostatic precipitator, cold side, with flue gas conditioning
EH	Electrostatic precipitator, hot side, with flue gas conditioning
EK	Electrostatic precipitator, cold side, without flue gas conditioning
EW	Electrostatic precipitator, hot side, without flue gas conditioning
MC	Multiple Cyclone
SC	Single Cyclone

WS	Wet Scrubber
OT	Other (specify in SCHEDULE 7. COMMENTS).

- 3. For line 5, Installed Cost of Flue Gas Particulate Collector Excluding Land, enter the actual installed cost for the existing system or the anticipated cost to bring a planned system into commercial operation. Installed cost should include the cost of all major modifications. A major modification is any physical change which results in a change in the amount of air or water pollutants or which results in a different pollutant being emitted.
- 4. For lines 6, 7, 8 and 9 enter value for fuel. Enter range of values, if applicable.

### SCHEDULE 6, PART H. FLUE GAS DESULFURIZATION UNIT INFORMATION – DESIGN PARAMETERS

- If a procurement contract has been signed for an upgrade or retrofit of a Flue Gas
  Desulfurization Unit: 1) complete a separate page for the existing unit; 2) specify in SCHEDULE
  7. COMMENTS, how long the existing equipment will be out of service; and 3) using the same
  FGD identification, complete a separate SCHEDULE 6, PART H. FLUE GAS
  DESULFURIZATION UNIT DESIGN PARAMETERS for the planned upgrade or retrofit.
- 2. For line 2, Flue Gas Desulfurization Unit Status, select from the following equipment status codes:

Code	Status
CN	Cancelled (previously reported as planned)
CO	New unit under construction
OP	Operating (in commercial service or out of service less than 365 days)
OS	Out of service (365 days or longer)
PL	Planned (expected to go into commercial service within 10 years)
RE	Retired (no longer in service and not expected to be returned to service)
SB	Standby (or inactive reserve, i.e., not normally used by available for service)
SC	Cold Standby (Reserve); deactivated. Usually requires 3 to 6 months to activate
TS	Operating under test conditions (not in commercial service)

- 3. If the code selected is "OP" complete lines 4 through 14, otherwise do not complete these lines.
- 4. For line 4, **Type of Flue Gas Desulfurization Unit**, select from the following FGD unit codes (for combination units, separate multiple entries (up to four) with commas):

Code	Type of Unit
BR	Jet Bubbling Reactor
CD	Circulating Dry Scrubber
DP	Dry Powder Injection type
MA	Mechanically aided type
PA	Packed type
SD	Spray dryer type
SP	Spray type
TR	Tray type
VE	Venture type
OT	Other (specify in SCHEDULE 7. COMMENTS)

5. For line 5, **Type of Sorbent**, select from the following sorbent codes (separate multiple entries (up to four) with commas):

Code	Type of Sorbent
AF	Alkaline fly ash
CC	Calcium carbide slurry
CEF	CE filtrate
CSH	Caustic Sodium hydroxide

U.S. Department of Energy	ANNUAL ELECTRIC	Form Appro
<b>U.S. Energy Information Administration</b>	GENERATOR REPORT	Approval E
Form EIA-860 (2011)	INSTRUCTIONS	Burden Ho

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

DB	Dibasic acid
DL	Dolomitic limestone
LA	Lime and alkaline fly ash
LF	Limestone and alkaline fly ash
LI	Lime
LS	Limestone
MO	Magnesium oxide
SA	Soda ash
SB	Sodium bicarbonate
SC	Sodium carbonate
SF	Sodium formate
SL	Soda liquid
SS	Sodium sulfite
TW	Treated wastewater
WT	Water
OT	Other (specify in SCHEDULE 7. COMMENTS)

6. For line 7, **Flue Gas Desulfurization Unit Manufacturer**, select one code from the following flue gas desulfurization unit manufacturer codes:

Code	Manufacturer						
AA	Advanced Air Technologies						
ABB	ABB Environmental Systems						
AL	Alstom						
AM	merican Air Filter						
AP	Airpol						
API	Air Pollution Industries						
AX	Amerex Industries						
BE	Bact Engineering						
BI	Bleco Industries						
BL	Bechtel Corporation						
BMD	Burns and McDonnell						
ВО	Bionomics						
BPC	Belco Pollution Control						
BPE	Babcock Power Environmental Inc (BPEI)						
BT	Belco Technologies						
BW	Babcock and Wilcox						
CA	Chiyoda						
CC	Chemico						
CE	Combustion Engineering						
CO	Combustion Equipment						
DA	Delta Conveying Systems						
DC	Ducon						
DM	Davey McKee						
EE	Environmental Engineering						
EEC	Environmental Elements Corporation						
El	Entoleter Inc						
FL	Flakt, Inc						
FM	FMC						
FW	Foster Wheeler						
GE	General Electric						
GF	Grafwolff						
HA	Hamon						
IH	In House Design						
JO	Joy Manufacturing						
KC	Korea Cottrell						

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

KE	M.W. Kellogg
KR	Krebs Equipment
LLB	Lurgi Lentjes Bischoff
MC	Macrotek
MG	McGill Air Clean
MI	Mitsubishi Industry
MT	Mobotec
MX	Marselex
NPA	Neptune Airpol
NSP	NSP
PA	Procedair
PB	Peabody
PR	Pyro Power
PU	Pure Air
RC	Research Cottrell
RS	Riley Stoker
SHU	Saarberg-Holter Umwelttechnick GmbH
SK	Schenck Weigh Feeders
TC	Turbosonic
TH	Thyssen/CEA
TK	Turbotak
TP	Tempala Power
UE	Utility Engineering
UM	United McGill
UO	Universal Oil Products
WAP	Wheelabrator Air Pollution Control
ZN	Zurn
OT	Other (specify in SCHEDULE 7. COMMENTS)

- 7. For line 15, **Removal Efficiency for Sulfur Dioxide**, report the removal efficiency as the percent by weight of gases removed from the flue gas.
- 8. For lines 20, 21, 22, and 23, enter the actual installed costs for the existing systems or the anticipated costs to bring a planned system into commercial operation. Installed cost should include the cost of all major modifications. A major modification is any physical change which results in a change in the amount of air or water pollutants or which results in a different pollutant being emitted. The total (line 23) will be the sum of lines 20, 21, and 22 which includes any other costs pertaining to the installation of the unit.

### SCHEDULE 6, PART I. STACK AND FLUE INFORMATION – DESIGN PARAMETERS (DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW)

- If a procurement contract has been signed for an upgrade or retrofit of a stack or flue: 1)
  complete a page for the existing stack or flue; 2) specify in SCHEDULE 7. COMMENTS, how
  long the existing structure will be out of service; and 3) using the same flue and stack
  identifications, complete a separate SCHEDULE 6, PART I for the planned upgrade or retrofit.
- 2. For line 1, **Flue ID**, and line 2, **Stack ID**, there must be an entry. If there is only one flue, also use the stack ID as the flue ID. Identification codes must be the same as reported on SCHEDULE 6, PART A. PLANT CONFIGURATION.
- 3. For line 3, Stack (or Flue) Actual or Projected In-Service Date of Commercial Operation, the month-year should be entered as follows: e.g., August 1959 as 08-1959.
- 4. For line 4, **Status of Stack**, select one from the following equipment status codes:

Status	Code
CN	Cancelled (previously reported as "planned")

U.S. Department of Energy	ANNUAL ELECTRIC	Form Approved OMB No. 1905-0129
U.S. Energy Information Administration	GENERATOR REPORT	Approval Expires: 10/31/2013
Form EIA-860 (2011)	INSTRUCTIONS	Burden Hours: 9.4 Hours

CO	New unit under construction
OP	Operating (in commercial service or out of service within 365 days)
OS	Out of service (365 days or longer)
PL	Planned (on order or expected to go into commercial service within 10 years)
RE	Retired (no longer in service and not expected to be returned to service)
SB	Standby (or inactive reserve, i.e., not normally used, but available for service)
SC	Cold Standby (Reserve); deactivated. Usually requires 3 to 6 months to reactivate
TS	Operating under test conditions (not in commercial service).

- 5. For lines 7 and 8, the rate should be approximately equal to the cross-sectional area multiplied by the velocity, multiplied by 60.
- 6. For lines 13 and 14, seasonal average flue gas exit temperatures should be reported in degrees Fahrenheit, based on the arithmetic mean of measurements during operating hours. Summer season includes June, July, and August. Winter season includes January, February, and December.
- 7. For line 15, **Source**, enter "M" for measured or "E" for estimated.
- 8. For lines 16 and 17, **Stack Location**, enter the latitude and longitude in degrees, minutes, and seconds.
- 9. For line 18, Enter Datum for Latitude and Longitude, if Known; Otherwise Enter "UNK": The longitude and latitude measurement for a location depends in part on the coordinate system (or "datum") the measurement is keyed to. "Datum systems" used in the United States, include the North American Datum 1927 (NAD27), North American Datum 1983 (NAD83) and World Geodetic Survey 1984 (WGS84). If you do not know the datum system used, enter UNK.

### **SCHEDULE 7. COMMENTS**

This schedule provides additional space for comments. Please identify schedule and line number and identifying information (e.g., plant code, boiler id, generator id) for each comment and use additional pages, if necessary.

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

**Table 1. Energy Source Codes and Heat Content** 

Eval True	Energy	Unit Label	Higher Heating Value Range		Frankry Sauraa Daganintian		
Fuel Type	Source Code		MMBtu Lower	MMBtu Upper	- Energy Source Description		
Fossil Fuels							
	ANT	tons	22	28	Anthracite Coal		
	BIT	tons	20	29	Bituminous Coal		
	LIG	tons	10	14.5	Lignite Coal		
	SUB	tons	15	20	Subbituminous Coal		
Coal	WC	tons	6.5	16	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)		
	RC	tons	20	29	Refined Coal		
	DFO	barrels	5.5	6.2	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils.		
	JF	barrels	5	6	Jet Fuel		
	KER	barrels	5.6	6.1	Kerosene		
	PC	tons	24	30	Petroleum Coke		
Petroleum Products	RFO	barrels	5.8	6.8	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)		
	WO	barrels	3.0	5.8	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)		
	BFG	Mcf	0.07	0.12	Blast Furnace Gas		
	NG	Mcf	0.8	1.1	Natural Gas		
Natural Gas and Other	OG	Mcf	0.32	3.3	Other Gas (specify in SCHEDULE 7. COMMENTS)		
Gases	PG	Mcf	2.5	2.75	Gaseous Propane		
	SG	Mcf	0.2	1.1	Synthetic Gas		
	SGC	Mcf	0.2	0.3	Coal-Derived Synthetic Gas		
			Renewable	e Fuels			
	AB	tons	7	18	Agricultural By-Products		
	MSW	tons	9	12	Municipal Solid Waste		
Solid Renewable	OBS	tons	8	25	Other Biomass Solids (specify in SCHEDULE 7. COMMENTS)		
Fuels	WDS	tons	7	18	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids)		

E 1/E	Energy	Unit	Higher Heating Value Range		E				
Fuel Type	Source Code	Label	MMBtu Lower	MMBtu Upper	<ul> <li>Energy Source Description</li> </ul>				
	Renewable Fuels								
	OBL	barrels	3.5	4	Other Biomass Liquids (specify in SCHEDULE 7. COMMENTS)				
Liamid	SLW	tons	10	16	Sludge Waste				
Liquid Renewable	BLQ	tons	10	14	Black Liquor				
(Biomass) Fuels	WDL	barrels	8	14	Wood Waste Liquids excluding Black Liquor (including red liquor, sludge wood, spent sulfite liquor, and other wood- based liquids)				
Gaseous	LFG	Mcf	0.3	0.6	Landfill Gas				
Renewable (Biomass) Fuels	OBG	Mcf	0.36	1.6	Other Biomass Gas (including digester gas, methane, and other biomass gases; specify in SCHEDULE 7. COMMENTS)				
	SUN	N/A	0	0	Solar				
	WND	N/A	0	0	Wind				
	GEO	N/A	0	0	Geothermal				
All Other Renewable Fuels	WAT	N/A	0	0	Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology				
			All Other	Fuels					
	WAT	MWh	0	0	Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine				
	NUC	N/A	0	0	Nuclear (including Uranium, Plutonium, and Thorium)				
	PUR	N/A	0	0	Purchased Steam				
All Other Energy Sources	WH	N/A	0	0	Waste heat not directly attributed to a fuel source (WH should only be reported where the fuel source for the waste heat is undetermined, and for combined cycle steam turbines that do not have supplemental firing.)				
	TDF	Tons	16	32	Tire-derived Fuels				
	MWH	MWh	0	0	Electricity used for energy storage				
	OTH	N/A	0	0	Specify in SCHEDULE 7. COMMENTS				

U.S. Department of Energy
U.S. Energy Information Administration
Form FIA 900 (2044)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

## **Table 2. Commonly Used North American Industry Classification System (NAICS) Codes**

	Agriculture, Forestry, Fishing and Hunting
111	Crop Production
112	Animal Production
113	Forestry and Logging
114	Fishing, Hunting and Trapping
115	Support Activities for Agriculture and Forestry
110	Support / tour most for / ignountary and / orosaly
	Mining, Quarrying, and Oil and Gas Extraction
211	Oil and Gas Extraction
2121	Coal Mining
2122	Metal Ore Mining
2123	Nonmetallic Mineral Mining and Quarrying
2.20	Trominotaino minorai mining ana Quarrying
	Utilities
	Electric Power Generation, Transmission and Distribution (other than 2212,
22	2213, 22131, 22132, or 22133)
2212	Natural Gas Distribution
2213	Water, Sewage and Other Systems <sup>2</sup>
22131	Water Supply and Irrigation Systems
22132	Sewage Treatment Facilities
22133	Steam and Air-Conditioning Supply <sup>1</sup>
	Cloan and I in Containing Cappin
23	Construction
	Manufacturing
311	Food Manufacturing
3121	Beverage Manufacturing <sup>1</sup>
3122	Tobacco Manufacturing
313	Textile Mills (Fiber, Yarn, Thread, Fabric, and Textiles) 1
314	Textile Product Mills
315	Apparel Manufacturing
316	Leather and Allied Product Manufacturing
321	Wood Product Manufacturing
322	Paper Manufacturing (other than 32212, 322122, or 32213)
32212	Paper Mills <sup>1</sup>
322122	Newsprint Mills <sup>2</sup>
_	•
32213	Paperboard Mills
323 324	Printing and Related Support Activities
	Petroleum and Coal Products Manufacturing (other than 32411)
32411	Petroleum Refineries Chamical Manufacturing (athor than 2254, 22549, 225499, 2252, 225244, 2252)
325	Chemical Manufacturing (other than 3251, 32512, 325188, 3252, 325211, 3253, or 325311)
3251	or 325311) Basic Chemical Manufacturing <sup>1</sup>
32512	Industrial Gas Manufacturing <sup>2</sup>
32512 325188	All Other Basic Inorganic Chemical Manufacturing <sup>2</sup>
323100	Resin, Synthetic Rubber, and Artificial Synthetic Fibers and Filaments
3252	Manufacturing <sup>1</sup>
325211	Plastics Material and Resin Manufacturing <sup>2</sup> Posticide Fortilizer and Other Agricultural Chemical Manufacturing <sup>1</sup>
3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing <sup>1</sup>
325311	Nitrogenous Fertilizer Manufacturing <sup>2</sup>
326	Plastics and Rubber Products Manufacturing

U.S. Department of Energy U.S. Energy Information Administration Form EIA-860 (2011)	ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS	Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours		
327	Nonmetallic Mineral Product Manufa	cturing (other than 32731)		
32731	Cement Manufacturing	,		
331	Primary Metal Manufacturing (other	than 331111 or 331312)		
331111	Iron and Steel Mills			
331312	Primary Aluminum Production			
331312	Fabricated Metal Product Manufacturing			
	<u> </u>			
333	Machinery Manufacturing			
334	Computer and Electronic Product Ma			
3345	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing <sup>2</sup>			
335	Electrical Equipment, Appliance, and	•		
336	Transportation Equipment Manufaction	uring		
337	Furniture and Related Product Manu	facturing		
339	Miscellaneous Manufacturing			
421	Wholesale Trade			
441	Retail Trade			
	Transportation and Warehousing			
481	Air Transportation			
482	Rail Transportation			
483	Water Transportation			
484	Truck Transportation			
485	Transit and Ground Passenger Tran-	sportation		
486	Pipeline Transportation			
487	Scenic and Sightseeing Transportati	on		
488	Support Activities for Transportation			
491	Postal Service <sup>1</sup>			
492	Couriers and Messengers <sup>1</sup>			
493	Warehousing and Storage <sup>1</sup>			
	Information			
511	Publishing Industries (except Interne	(t) <sup>1</sup>		
512	Motion Picture and Sound Recording	Industries		
513	Communications <sup>2</sup>			
514	Business Services <sup>2</sup>			
514199	Miscellaneous Services <sup>2</sup>			
515	Broadcasting (except Internet) <sup>1</sup>			
517	Telecommunications <sup>1</sup>			
518	Data Processing, Hosting, and Relat	ed Services <sup>1</sup>		
519	Other Information Services <sup>1</sup>	ed dervices		
521	Finance and Insurance			
53	Real Estate and Rental and Leasir	ng <sup>1</sup>		
541	Professional, Scientific, and Tech	nical Services		
55	Management of Companies and E	nterprises <sup>1</sup>		
	Administrative and Support and W Services	/aste Management and Remediation		
561	Administrative and Support Services			
562211	Hazardous Waste Treatment and Dis			

U.S. Department of Energy	ANNUAL ELECTRIC	Form Approved OMB No. 1905-0129		
<b>U.S. Energy Information Administration</b>	GENERATOR REPORT	Approval Expires: 10/31/2013		
Form EIA-860 (2011)	INSTRUCTIONS	Burden Hours: 9.4 Hours		
562212	Solid Waste Landfill			
562213	Solid Waste Combustors and Incinerators <sup>1</sup>			
562214	other Nonhazardous Waste Treatment and Disposal <sup>1</sup>			
611	Educational Services			
	Health Care and Social Assistance			
621	Ambulatory Health Care Services <sup>1</sup>			
622	Hospitals			
623	623 Nursing and Residential Care Facilities <sup>1</sup>			
624	Social Assistance			
	Arts, Entertainment, and Recreation	n		
711	Performing Arts, Spectator Sports, and Related Industries <sup>1</sup>			
712	Museums, Historical Sites, and Similar Institutions			
713	Amusement, Gambling, and Recreation Industries			
	Accommodation and Food Services			
721	Accommodation			
722	722 Food Services and Drinking Places <sup>1</sup>			
	Other Services (except Public Adn	ninistration)		
811	Repair and Maintenance			
8111	Automotive Repair and Maintenance <sup>2</sup>			
812	Personal and Laundry Services			
813	Religious, Grantmaking, Civic, Profes	ssional, and Similar Organizations		
814	Private Households			
	Public Administration (other than 9	92212, 92214, or 92216)		
92212	Police Protection <sup>1</sup>			
92214	Correctional Facilities <sup>1</sup>			
92216	Fire Protection <sup>1</sup>			

**Note:** EIA is in the process of updating its NAICS codes from the ones it has historically used to collect primary purpose information on the EIA-860 to the more recent version released in 2007 by the Office of Management and Budget. In order to minimize confusion while EIA works to transition the codes, this table includes new codes which EIA expects to add to its table (identified with a "1") and those codes which EIA expects to delete (identified with a "2"). When selecting the appropriate NAICS code for your plant, please consider the new codes and not the ones expected to be deleted.

U.S. Department of Energy
U.S. Energy Information Administration
Form EIA-860 (2011)

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

### **GLOSSARY**

The glossary for this form is available online at the following URL: <a href="http://www.eia.gov/glossary/index.html">http://www.eia.gov/glossary/index.html</a>

#### **SANCTIONS**

The timely submission of Form EIA-860 by those required to report is mandatory under Section 13(b) of the Federal Energy Administration Act of 1974 (FEAA) (Public Law 93-275), as amended. Failure to respond may result in a penalty of not more than \$2,750 per day for each civil violation, or a fine of not more than \$5,000 per day for each criminal violation. The government may bring a civil action to prohibit reporting violations, which may result in a temporary restraining order or a preliminary or permanent injunction without bond. In such civil action, the court may also issue mandatory injunctions commanding any person to comply with these reporting requirements. **Title 18 U.S.C. 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.** 

### REPORTING BURDEN

Public reporting burden for this collection of information is estimated to average 6.75 hours per response for response for respondents without environmental information and 12.5 hours per response for respondents with environmental information, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the U.S. Energy Information Administration, Statistics and Methods Group, El-70, 1000 Independence Avenue S.W., Forrestal Building, Washington, DC 20585-0670; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503. A person is not required to respond to the collection of information unless the form displays a valid OMB number.

### DATA PROTECTION PROCEDURES

Information reported on Form EIA-860 will be treated as non-sensitive and may be publicly released in identifiable form except as noted below.

The information reported for the data element "Tested Heat Rate" contained on SCHEDULE 3, PART B. GENERATOR INFORMATION – EXISTING GENERATORS will be treated as sensitive and protected to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905.

The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another component of the Department of Energy (DOE); to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are applied to the sensitive statistical data published from SCHEDULE 3 PART B. GENERATOR INFORMATION – EXISTING GENERATORS, Tested Heat Rate, on Form EIA-860 to ensure that the risk of disclosure of identifiable information is very small.

U.S. Department of Energy U.S. Energy Information Administration Form EIA-860 (2011)

### ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours

NOTICE: This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For further information concerning sanctions and disclosure information, see the provisions stated on the last page of the instructions. Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

SCHEDULE 1. ID	ENTIFICATION				
Survey Contact					
Name:	Title:				
Address:					
City:	State:				
Phone (include extension):	Zip: Fax:				
Email:					
Supervisor of Contac					
Name:	Title:				
Address:					
City:	State:				
	Zip:				
Phone (include extension):	Fax:				
Email:					
Report					
Operator Name:					
Operator ID:					
Reporting as of December 31 of year:					
Operator In	<u>formation</u>				
Legal Name of Operator:					
Current Address of Principal Business Office of Plant Operator	:				
Is the Operator an Electric Utility?	[ ] Yes				
For questions or additional information about the Form EIA-860, contact the survey staff:					
Vlad Dorjets Fax Number: 202-287-1960 Email: <u>Vlad.Dorjets@eia.gov</u>	mailto:Suparna Ray Fax Number: 202-287-1960 Email: Suparna.Ray@eia.gov				

U.S. Department of Energy U.S. Energy Information Administration Form EIA-860 (2011)			ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS		Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours		
Operator	Name:						
Operator	r ID:	-		Reporting as of	f December 31 of Yea	r:	
(EXIST	SCHEDULE 2. POWER PLANT DATA (EXISTING POWER PLANTS AND THOSE PLANNED FOR INITIAL COMMERCIAL OPERATION WITHIN 10 YEARS)						
LINE				PLANT 1			
1	Plant Name		E	EIA Plant Code			
2	Street Address						
3	County Name		C	City Name			
4	State						
5	Zip Code						
6	Latitude (Degre Seconds)	ees, Minutes,		Longitude (Deg Seconds)	grees, Minutes,		
7	Enter Datum fo	or Latitude and Lo	ongitude, if Knowr	n; Otherwise En	nter "UNK"		
8a	NERC Region						
8b	Is this Plant in	an RTO or ISO Te	erritory?			[ ]Yes	[ ] No
8c	Name of RTO or ISO  [ ] California ISO         [ ] Electric Reliability         [ ] Southwest Power Pool         [ ] Midwest ISO         [ ] PJM Interconnection         [ ] New York ISO         [ ] ISO New England         [ ] Other				Council of Te	xas	
9	Name of Water	Source (For Purp	pose of Cooling o	r Hydroelectric)	)		
10	Steam Plant St	tatus [	] existing	[ ] planned	[ ] retired	[]	IA
11	Steam Plant Ty	[ ] Combustible-fueled steam generators with 100 MW or more nameplate capacity (including steam generators with duct firing) [ ] Combustible-fueled steam generators with more than 10 MW but less than 10 MW nameplate capacity (including steam generators with duct firing) [ ] All nuclear generators, combined cycle steam turbine generators without dufiring and solar thermal generators using a steam cycle with 100 MW or more nameplate capacity [ ] Non-steam fueled generators (wind, PV, geothermal, fuel cell, etc.)				than 100	
12	Primary Purpo	ose of the Plant (North American Industry Classification System)					
13	Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Cogenerator status? If Yes, provide all QF docket number(s).  [ ] Yes [ ] No Separate by using a comma.					[ ]No	
14	Facility (QF) Si	es this plant have Federal Energy Regulatory Commission (FERC) Qualifying ility (QF) Small Power Producer status? If Yes, provide all QF docket nber(s). Separate by using a comma.				[ ]Yes	[ ]No
15	Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Exempt Wholesale Generator status? If Yes, provide all QF docket number(s). Separate by using a comma.				[ ]Yes	[ ]No	
16a	Owner of Transmission and/or Distribution Facilities						
16b	Grid Voltage (in kilovolts)						

	partment of Ene		ANNUAL EL		Form Approved O		0129	
U.S. Energy Information Administration Form EIA-860 (2011)		1 Administration	GENERATOR REPORT INSTRUCTIONS		Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours			
Operato	r Name:							
Operato	r ID:	-	F	Reporting as of	December 31 of Yea	r:		
			SCHEDULE 2. POWE					
•	(EXISTING POWER PLANTS AND THOSE PLANNED FOR INITIAL COMMERCIAL OPERATION WITHIN 10 YEARS)							
LINE	PLANT 1							
1	Plant Name		EI	A Plant Code				
2	Street Address							
3	County Name		Cit	ty Name				
4	State							
5	Zip Code							
6	Latitude (Degrees, Minutes, Seconds)  Longitude (Degrees, Minutes, Seconds)			rees, Minutes,				
7	Enter Datum fo	or Latitude and L	ongitude, if Known;	Otherwise En	ter "UNK"			
8a	NERC Region							
8b	Is this Plant in	this Plant in an RTO or ISO Territory?					[ ] No	
8c	Name of RTO or ISO  [ ] California ISO         [ ] Electric Reliability Council of [ ] Southwest Power Pool         [ ] PJM Interconnection         [ ] ISO New England         [ ] Other				Council of Te	xas		
9	Name of Water	Source (For Pur	pose of Cooling or I	Hydroelectric)				
10	Steam Plant St	atus	[ ] existing	[ ] planned	[ ] retired	[]	NA	
11	Steam Plant Ty	[ ] Combustible-fueled steam generators with 100 MW or more nameplate capacity (including steam generators with duct firing) [ ] Combustible-fueled steam generators with more than 10 MW but less than a MW nameplate capacity (including steam generators with duct firing) [ ] All nuclear generators, combined cycle steam turbine generators without diffring and solar thermal generators using a steam cycle with 100 MW or more nameplate capacity [ ] Non-steam fueled generators (wind, PV, geothermal, fuel cell, etc.)			than 100			
12	Primary Purpo	se of the Plant (N	North American Indu	stry Classifica	ation System)			
13	Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying					[ ] No		
14	Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Small Power Producer status? If Yes, provide all QF docket number(s). Separate by using a comma.				[ ]Yes	[ ]No		
15	Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Exempt Wholesale Generator status? If Yes, provide all QF docket number(s). Separate by using a comma.				[ ]Yes	[ ]No		
16a	Owner of Transmission and/or Distribution Facilities							
16b	Grid Voltage (in kilovolts)							

U.S. Ene	partment of Ene ergy Information A-860 (2011)	Form Approved O Approval Expires: Burden Hours: 9.4	10/31/2013	0129					
Operator	· Name:								
Operator	· ID:	=		Reporting as of	December 31 of Yea	r:			
(EXIST	ING POWER PL		SCHEDULE 2. POW SE PLANNED FOR		TA IERCIAL OPERATIO	N WITHIN 10 Y	YEARS)		
LINE			I	PLANT 1			· · ·		
1	Plant Name		E	IA Plant Code					
2	Street Address								
3	<b>County Name</b>								
4	State								
5	Zip Code								
6	Latitude (Degre Seconds)	ees, Minutes,	rees, Minutes,						
7	Enter Datum fo	or Latitude and L	ongitude, if Known	; Otherwise En	iter "UNK"				
8a	NERC Region								
8b	Is this Plant in	an RTO or ISO	Territory?			[ ] Yes	[ ] No		
8c	Name of RTO of	or ISO [ ] So	lifornia ISO uthwest Power Poo M Interconnection ) New England	[ ] [ ]	] Electric Reliability ] Midwest ISO ] New York ISO ] Other	Council of Te	xas		
9	Name of Water	Source (For Pu	rpose of Cooling or	Hydroelectric)					
10	Steam Plant St	tatus	[ ] existing	[ ] planned	[ ] retired	[] N	IA		
11	Steam Plant Ty	capaci [ ] Co MW na [ ] All firing a namep	ty (including steam ombustible-fueled s meplate capacity (in nuclear generators and solar thermal generators late capacity	generators wit team generator ncluding steam s, combined cy enerators using	rs with 100 MW or meth duct firing) rs with more than 10 r generators with du rcle steam turbine ge g a steam cycle with PV, geothermal, fue	MW but less act firing) enerators with 100 MW or mo	than 100		
12	Primary Purpo	se of the Plant (	North American Ind	ustry Classifica	ation System)				
13	Facility (QF) C		nergy Regulatory C is? If Yes, provide			[ ] Yes	[ ] No		
14	Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Small Power Producer status? If Yes, provide all QF docket [ ] Ye number(s). Separate by using a comma.								
15	Facility (QF) Ex		nergy Regulatory C e Generator status? a comma.			[ ] Yes	[ ]No		
16a	Owner of Transmission and/or Distribution Facilities								
16b									

	partment of Ene		ANNUAL EL		Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013					
	ergy information A-860 (2011)	n Administration	GENERATOR INSTRUC		Burden Hours: 9.4					
Operato	r Name:									
Operato	r ID:	-	F	Reporting as of	December 31 of Yea	r:				
			SCHEDULE 2. POWE							
•	ING POWER PL	ANTS AND THO			IERCIAL OPERATIO	N WITHIN 10	YEARS)			
LINE				LANT 1						
1	Plant Name		El	A Plant Code						
2	Street Address									
3	County Name		Cit	ty Name						
4	State									
5	Zip Code									
6	Latitude (Degre Seconds)	ees, Minutes,	rees, Minutes,							
7	Enter Datum fo	ter "UNK"								
8a	NERC Region									
8b	Is this Plant in	an RTO or ISO T	erritory?			[ ] Yes	[ ] No			
8c	Name of RTO o	or ISO [ ] Sou	ifornia ISO uthwest Power Pool Il Interconnection New England	[ ]	] Electric Reliability ] Midwest ISO ] New York ISO ] Other	Council of Te	xas			
9	Name of Water	Source (For Pur	pose of Cooling or I	Hydroelectric)						
10	Steam Plant St	atus	[ ] existing	[ ] planned	[ ] retired	ed [] NA				
11	Steam Plant Ty	capacit [ ] Co MW nai /pe [ ] All firing al namepl	y (including steam g mbustible-fueled ste meplate capacity (in nuclear generators, nd solar thermal ger late capacity	generators wit eam generator cluding steam combined cy nerators using	rs with 100 MW or ments the duct firing) rs with more than 10 and generators with duct get and turbine get a steam cycle with PV, geothermal, fue	MW but less ct firing) enerators with 100 MW or m	than 100			
12	Primary Purpo	se of the Plant (N	North American Indu	stry Classifica	ation System)	- 				
13		ogenerator statu	nergy Regulatory Co s? If Yes, provide a			[ ] Yes	[ ] No			
14	Does this plant Facility (QF) Si number(s). Se	ERC) Qualifying F docket	[ ]Yes	[ ]No						
15	Facility (QF) Ex		nergy Regulatory Co Generator status? a comma			[ ]Yes	[ ]No			
16a	Owner of Trans	smission and/or								
16b	Grid Voltage (i									

U.S. Ene	partment of Ene ergy Information A-860 (2011)	Form Approved O Approval Expires: Burden Hours: 9.4	10/31/2013	129					
Operator	· Name:								
Operator	· ID:	-		Reporting as o	of December 31 of Yea	r:			
(EXIST	ING POWER PL		SCHEDULE 2. POV SE PLANNED FOR		ATA MERCIAL OPERATIO	N WITHIN 10 Y	'EARS)		
LINE				PLANT 1					
1	Plant Name		E	IA Plant Code					
2	Street Address								
3	<b>County Name</b>								
4	State								
5	Zip Code								
6	Latitude (Degre Seconds)	ees, Minutes,	grees, Minutes,						
7	Enter Datum fo	or Latitude and L	ongitude, if Knowr	n; Otherwise E	nter "UNK"				
8a	NERC Region								
8b	Is this Plant in	an RTO or ISO	Territory?			[ ] Yes	[ ] No		
8c	Name of RTO of	or ISO [ ] So	lifornia ISO uthwest Power Poo M Interconnection ) New England	] ld	] Electric Reliability ] Midwest ISO ] New York ISO ] Other	Council of Tex	as		
9	Name of Water	Source (For Pu	rpose of Cooling o	r Hydroelectric	<b>;</b> )				
10	Steam Plant St	tatus	[ ] existing	[ ] planned	d [ ] retired	[ ] N	A		
11	Steam Plant Ty	capaci [ ] Co MW na [ ] All firing a namep	ty (including steam ombustible-fueled s meplate capacity (i I nuclear generator and solar thermal g late capacity	generators water generated the second	ors with 100 MW or mith duct firing) ors with more than 10 m generators with du ycle steam turbine ge g a steam cycle with , PV, geothermal, fue	MW but less to tring) enerators with a 100 MW or mo	than 100		
12	<b>Primary Purpo</b>	se of the Plant (	North American Inc	lustry Classific	cation System)				
13	Facility (QF) C		nergy Regulatory ( is? If Yes, provide			[ ]Yes	[ ]No		
14	Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Small Power Producer status? If Yes, provide all QF docket number(s). Separate by using a comma. [ ] Yes								
15	Facility (QF) Ex		nergy Regulatory ( e Generator status' a comma.			[ ] Yes	[ ] No		
16a	Owner of Trans	smission and/or	Distribution Facilit	ies					
16b	Owner of Transmission and/or Distribution Facilities  Grid Voltage (in kilovolts)								

U.S. Ene	partment of Ene ergy Information A-860 (2011)	Form Approved O Approval Expires: Burden Hours: 9.4	10/31/2013	0129					
Operator	· Name:								
Operator	· ID:	=		Reporting as of	December 31 of Yea	r:			
(EXIST	ING POWER PL		SCHEDULE 2. POW SE PLANNED FOR		TA IERCIAL OPERATIO	N WITHIN 10 Y	YEARS)		
LINE			I	PLANT 1			· · ·		
1	Plant Name		E	IA Plant Code					
2	Street Address								
3	County Name								
4	State								
5	Zip Code								
6	Latitude (Degre Seconds)	ees, Minutes,	rees, Minutes,						
7	Enter Datum fo	or Latitude and L	ongitude, if Known	; Otherwise En	iter "UNK"				
8a	NERC Region								
8b	Is this Plant in	an RTO or ISO	Territory?			[ ] Yes	[ ] No		
8c	Name of RTO of	or ISO [ ] So	lifornia ISO uthwest Power Poo M Interconnection ) New England	[ ] [ ]	] Electric Reliability ] Midwest ISO ] New York ISO ] Other	Council of Te	xas		
9	Name of Water	Source (For Pu	rpose of Cooling or	Hydroelectric)					
10	Steam Plant St	tatus	[ ] existing	[ ] planned	[ ] retired	[] N	IA		
11	Steam Plant Ty	capaci [ ] Co MW na [ ] All firing a namep	ty (including steam ombustible-fueled s meplate capacity (in nuclear generators and solar thermal generators late capacity	generators wit team generator ncluding steam s, combined cy enerators using	rs with 100 MW or meth duct firing) rs with more than 10 r generators with du rcle steam turbine ge g a steam cycle with PV, geothermal, fue	MW but less act firing) enerators with 100 MW or mo	than 100		
12	Primary Purpo	se of the Plant (	North American Ind	ustry Classifica	ation System)				
13	Facility (QF) C		nergy Regulatory C is? If Yes, provide			[ ] Yes	[ ] No		
14	Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Small Power Producer status? If Yes, provide all QF docket [ ] Ye number(s). Separate by using a comma.								
15	Facility (QF) Ex		nergy Regulatory C e Generator status? a comma.			[ ] Yes	[ ]No		
16a	Owner of Transmission and/or Distribution Facilities								
16b									

U.S. 1	Department of Energy Energy Information Administration EIA-860 (2011)	GENE	UAL ELECTR RATOR REPO STRUCTIONS	ORT	Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours				
Opera	ator Name:								
Opera	ator ID:		Repor	ting as of [	December 31 of Y	ear:			
		EDULE 3. GI	ENERATOR I	NFORMA	ΓΙΟΝ				
(E)	XISTING GENERATORS AND THOS	E PLANNED	FOR INITIAL	COMMER	CIAL OPERATION	ON WITHIN 10	0 YEARS)		
	SCHEDULE 3, PA (COMPLETE O				– GENERATOR OR, BY PLANT)	S			
1	Plant Name								
2	EIA Plant Code								
		Genera	ator (a)	Gei	nerator (b)	Gener	ator (c)		
3	Operator's Generator Identification								
4	Prime Mover								
5	Associated Boiler Identifications	1 2 3 4	5 6 7 8	1 2 3 4	5 6 7 8	1 2 3 4	5 6 7 8		
6	Unit Code (Multi-Generator Code)								
7	Ownership								
8	Is This Generator an Electric Utility Generator?	[ ] Yes	[ ] No	[ ] Ye	s [ ] No	[ ]Yes	[ ] No		
9	Date of Sale if Sold (MM-YYYY)								
10	Can This Generator Deliver Power to the Transmission Grid?	[ ]Yes	[ ] No	[ ] Ye	s []No	[ ]Yes	[ ] No		
11	For Combined-Cycle Steam Turbines (i.e. Prime Mover = CA, CS or CC) Does this Generator Have Duct-Burners?	[]Yes	[ ] No	[]Yes	s [] No	[]Yes	[ ] No		

U.S. E	Department of Energy Energy Information Administra EIA-860 (2011)	ration GENERATOR REPORT Approx						Approv	Approved OMB No. 1905-0129 oval Expires: 10/31/2013 en Hours: 9.4 Hours				
	ator Name:												
	Name:												
	rting as of December 31 of Year										_		
	SCHEDULE 3, PA		GENER	ATOR	INFOR	MATIO	N – EX	ISTING	GENE	RATOR	:S		
						CH GENERATOR, BY PLANT)							
	·		Genera	ator (a)			Genera	ator (b)			Genera	ator (c)	
1	Generator Nameplate Capacity (AC MW)							, ,				, ,	
		Summer:				Summer:				Summer:			
2	Net Capacity (AC MW)	Winter:				Winter:				Winter:			
3a	Maximum Expected Reactive Power Output (MVAR)												
3b	Maximum Reactive Power Absorption (MVAR)												
4	Status Code												
5	If Status Code is Standby, Can the Generator be Synchronized to the Grid?	[ ]	Yes	[ ]	No	[	] Yes	[ ]	No	[ ]	Yes	[ ]	No
6	Initial Date of Operation (MM-YYYY)												
7	Retirement Date (MM-YYYY)												
8a	Is This Generator Associated with a Combined Heat and Power System?	[ ]	Yes	[ ]	No	[ ]	Yes	[ ]	No	[ ]	Yes	[ ]	No
8b	If Yes, Is This Generator Part of a Topping or Bottoming Cycle?	ı	[ ] To [ ] Bot	pping toming	J	[ ] Topping [ ] Bottoming				[ ] Topping [ ] Bottoming			
	ENERGY SOURCES	•				•							
9	Predominant Energy Source												
9a	If coal-fired or petroleum coke-fired, check all combustion technologies that apply to the associated boiler(s) and steam conditions	[ ] F [ ] S [ ] S [ ] U	luidize ub-crit uper-cı Itra su <sub>l</sub>	ical	ical	[ ] F [ ] S [ ] S [ ] U	Fluidize Sub-cri Super-c Jltra su	tical	tical	[ ]     [ ]     [ ]	Fluidize Sub-cri Super-c Jltra su	tical	tical
10	Start-Up and Flame Stabilization Energy	а	b	С	d	а	b	С	d	а	b	С	d
	Sources (Steam Units Only)												
11	Second Most Predominant Energy Source												
12	Other Energy Sources	а	a b c d				b	С	d	а	b	С	d
12	Other Energy Sources		a b c u										

U.S. E	J.S. Department of Energy J.S. Energy Information Administratio Form EIA-860 (2011)		on GENERATOR REPORT INSTRUCTIONS				Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours					
Opera	ator Name:						0	perator ID:				
Plant	Name:				<del></del>		Р	lant Code:				
Repo	ting as of December 31 of Year	:										
	SCHEDULE 3, PA (COMPLE							CISTING GENE OR, BY PLANT		•		
			Genera	tor (a	a)	Ge	ene	rator (b)	G	enera	tor (c)	
13	Is This Generator Part of a Solid Fuel Gasification System?	[	] Yes	[	] No	[ ]Y	'es	[ ] No	[ ]	Yes	[ ]	No
14	Number of Turbines, Buoys, or Inverters											
15a	Tested Heat Rate											
15b	Fuel Used For Heat Rate Test											
16	Operating Efficiency for Solar Photovoltaic Generators (If Available)											
	PROPOSED CHANGES TO EX	XISTIN	G GENI	ERAT	ORS (W	THIN THE	E NI	EXT 10 YEARS	)			
17a	Are There Any Planned Modifications to This Generator, Including Retirement?	[	] Yes	[ ]	No	[ ]	<b>'es</b>	[ ] No	[ ]	Yes	[]N	lo
	Planned Uprates:											
	1. Incremental Net Summer capacity (MW)											
17b	2. Incremental Net Winter capacity (MW)											
	3. Planned Effective Date (MM-YYYY)											
	Planned Derates:											
	1. Incremental Net Summer capacity (MW)											
17c	2. Incremental Net Winter capacity (MW)											
	3. Planned Effective Date (MM-YYYY)											
	Planned Repowering:											
	1. New Prime Mover											
17d	2. New Energy Source											
174	3. New Nameplate Capacity											
	4. Planned Effective Date (MM-YYYY)											
47-	Other Modifications? (explain in Notes)	[	] Yes	[ ]	No	[ ]	<b>Yes</b>	[ ] No	[ ]	Yes	[ ] N	lo
17e	Planned Effective Date (MM- YYYY)											
17f	Planned Generator											

U.S. I	Department of Energy Energy Information Administra EIA-860 (2011)		GENE	UAL ELEC RATOR R STRUCTION	REPORT Approval Expires: 10/31/2013						
Plant	ator Name: Name: rting as of December 31 of Year						or ID: ode:				
Коро	SCHEDULE 3, PA (COMPLE	RT B. GE									
	(001111 22		enerator			enerator (		ĺ	enerator (	(c)	
	FUEL SWITCHING AND CO-F	IRING C	APABILIT	Υ							
18	Can This Generator be			] No	[ ]		] No	[ ] Yes [ ] No			
	Powered by Multiple Fuels?		kip to SCI 3, PART C			kip to SCH B, PART C		If No, Skip to SCHEDULE 3, PART C.			
19	Can This Unit Co-Fire	[ ]	Yes [	] No	[ ]	Yes [	] No	[]Yes []No			
10	Fuels?	If No,	Skip to Li	ne 23.	If No,	Skip to Li	ne 23.	If No, Skip to Line 23.			
		а	b	С	а	b	С	а	b	С	
20	Fuel Options for Co-Firing										
		d	е	f	d	е	f	d	е	f	
21	Can This Generator be Powered by Co-Fired Fuel	[ ]	Yes [	] No	[ ]	Yes [	] No	[ ]	Yes [	] No	
21	Oil and Natural Gas?	If Yes	, Skip to L	ine 23.	If Yes,	Skip to L	ine 23.	If Yes,	Skip to L	ine 23.	
	Can This Generator be Run	[ ]	Yes [	] No	[ ]Yes [ ]No			[ ]	Yes [	] No	
	on 100% Oil?	If Yes	, Skip to L	ine 23.	If Yes,	Skip to L	ine 23.	If Yes, Skip to Line 23.			
22	If No, What is the Maximum Oil Heat Input When Co- Firing with Natural Gas?	_		%			%			%	
	What is the Maximum Output Achievable (Net Summer Capacity in MW) When Making the Maximum Use of Oil and Co-Firing Natural Gas?		N	ЛW		N	1W		M	iw	
23	Can This Unit Fuel Switch?	[ ]	Yes [	] No	[ ]	Yes [	] No	[ ]	Yes [	] No	
23	Can Tine Oint Fuel Switch!	If No, S	If No, Skip to Schedule 3, Part C.			kip to Sch Part C.	edule 3,	If No, S	kip to Sch Part C.	edule 3,	
	Can This Unit Switch Between Oil and Natural	[ ]	Yes [	] No	[ ]	Yes [	] No	[ ] Yes [ ] No			
24	Gas?	If No,	Skip to Li	ne 26.	If No,	Skip to Li	ne 26.	If No, Skip to Line 26.			
	If Yes, Can the Unit Switch Fuels While Operating?	[ ]	Yes [	] No	[ ]	Yes [	] No	[ ]	Yes [	] No	

U.S. E	Department of Energy Energy Information Administra EIA-860 (2011)	ation	GENER	JAL ELEC RATOR R STRUCTION	<b>EPORT</b>	Appr	Approve oval Expi en Hours	res: 10/31		129	
	ator Name:						or ID:				
	Name:					Plant C	ode:				
Repor	ting as of December 31 of Year	:									
	•				RMATION – EXISTING GENERATORS CH GENERATOR, BY PLANT)						
	(2.2		enerator (			enerator (		ĺ	enerator (	(c)	
	What is the Maximum Net Summer Output Achievable (MW) When Running on Natural Gas?		M	IW	_	M	IW	MW			
	What is the Maximum Net Summer Output Achievable (MW) When Running on Fuel Oil?		M	IW		N	IW	MW			
	How Much Time is Required to Switch This Unit From Using 100% Natural Gas to Using 100% Oil?	[ ] over 2 [ ] over 3	hours 6 to 24 ho 24 to 72 h 72 hours. own or ur	ours	[ ] over 2 [ ] over 3	6 to 24 ho 24 to 72 h	ours	[ ] over :	hours 6 to 24 ho 24 to 72 h 72 hours. own or ur	ours	
	Are There Factors That Limit the Unit's Ability to	[ ]	Yes [	] No	[ ]	Yes [	] No	[]	Yes [	] No	
	Switch From Natural Gas to Oil?	If No,	Skip to Lir	ne 26.	If No,	Skip to Li	ne 26.	If No,	Skip to Lir	ne 26.	
25	If Yes, Check All Factors That Apply	storage. [ ] Air Pe [ ] Other SCHEDU	storage.  [ ] Air Permit limits [ ] Other (specify in SCHEDULE 7.			ed on site ermit limit (specify ILE 7. NTS)	ts	storage.	ermit limit (specify ILE 7.	ts	
		a b c			а	b	С	а	b	С	
26	Fuel Switching Options				d		_				
		d	d e f			е	f	d	е	f	

						EPOR1	Г /		al Expi	ires: 10	3 No. 19 0/31/201		9
	ator Name:					JIVO		erator l					
	Name:							ant Cod					
	rting as of December 31 of Year						1 10	ant 000	o		<del></del>		
rtopo	SCHEDULE 3, PAI					ΙΔΤΙΩΝ	I – PRO	POSFI	GEN	FRATC	)RS		
	(COMPLE												
	· ·			ator (a)		1	Genera				Genera	ator (c)	
1	Generator Nameplate Capacity (AC MW)												
		Sumr	ner:			Summ	er:			Sumn	ner:		
2	Net Capacity (AC MW)	Winte	Winter:				·:			Winter:			
3a	Maximum Expected Reactive Power Output (MVAR)												
3b	Maximum Reactive Power Absorption (MVAR)												
4	Status Code												
5	Planned Original Effective Date (MM-YYYY)												
6	Planned Current Effective Date (MM-YYYY)												
7	Will This Generator be Associated with a Combined Heat and Power System?	[	] Yes	[ ]	No	[ ]	] Yes	[ ]	No	]	] Yes	[ ]	No
8	Will This Generator be Part of a Solid Fuel Gasification System?	I	] Yes	[ ]	No	[ ]	] Yes	[ ]	No	[	] Yes	[ ]	No
9	Is This Generator Part of a Site That Was Previously Reported as Indefinitely Postponed or Cancelled?	[	] Yes	[ ]	No	[ ]	] Yes	[ ]	No	[	] Yes	[ ]	No
	PLANNED ENERGY SOURCE	ES											
10	Expected Predominant Energy Source												
11	If coal-fired or petroleum coke fired, check all combustion technologies that apply to the associated boiler(s) and steam conditions	[ ] ! [ ] ! [ ] !	Pulveriz Fluidize Sub-crit Super-c Ultra su Carbon-	d Bed ical ritical per-crit	ical	[ ]     [ ]     [ ]     [ ]	Pulveriz Fluidize Sub-cri Super-c Jltra su Carbon	ed Bed tical critical iper-cri	tical	[ ] [ ] [ ] [ ]	Pulveriz Fluidize Sub-crit Super-c Ultra su Carbon	ed Bed lical ritical per-cri	tical
12	Expected Second Most Predominant Energy Source	[ ] Carbon-capture					-						
13	Other Energy Sources	а	b	С	d	а	b	С	d	а	b	С	d
14	Number of Turbines, Buoys, or Inverters		•	ı				ı	1		<b>.</b>		

U.S. I	Department of Energy Energy Information Administra EIA-860 (2011)	ation	GENE	UAL ELEC RATOR R STRUCTION	Approval Expires: 10/31/2013					129			
	ator Name: Name:				Operator ID: Plant Code:								
	rting as of December 31 of Year												
	SCHEDULE 3, PAF (COMPLE								3				
	·		enerator		1	enerator (		1	enerator (	(c)			
	FUEL SWITCHING AND CO-F	IRING CA	APABILIT	Υ									
15	Will This Generator be Able to be Powered by Multiple		Yes [ Jndeterm			Yes [ Jndeterm	-	[ ] Yes [ ] No [ ] Undetermined					
13	Fuels?		Jndetermi SCHEDUL	ned, Skip .E 4.		Indetermi CHEDUL		If No or Undetermined, Skip to SCHEDULE 4.					
16	Will this Unit be Able to Co-	[]	[ ] Yes [ ] No  If No, Skip to Line 20.			Yes [	] No	[ ]	[ ]Yes [ ]No				
	Fire Fuels?	If No,	Skip to Li	ne 20.	If No,	Skip to Li	ne 20.	If No,	Skip to Lir	ne 20.			
		а	b	С	а	b	С	а	b	С			
17	Fuel Options for Co-Firing												
	and opinions for our minig	d	е	f	d	е	f	d	е	f			
18	Will This Generator be Able to be Powered by Co-Fired	[ ]	Yes [	] No	[ ]	Yes [	] No	[ ]	Yes [	] No			
	Fuel Oil and Natural Gas?	If No,	Skip to Li	ne 20.	If No,	Skip to Li	ne 20.	If No,	Skip to Lir	ne 20.			
	Will This Generator be able	[]	Yes [	] No	[ ]	Yes [	] No	[ ]	Yes [	] No			
	to Run on 100% Oil?	If Yes,	Skip to L	ine 20.	If Yes,	Skip to L	ine 20.	If Yes,	Skip to Li	ne 20.			
19	If No, What is the Expected Maximum Oil Heat Input When Co-Firing with Natural Gas?	_		%	_		%	%					
	What is the Expected Maximum Output Achievable (Net Summer Capacity in MW) When Making the Maximum Use of Oil and Co-Firing Natural Gas?		N	ıw	_	IV	iw	_	M	w			
20	Will This Unit be Able to	[]	Yes [	] No	[ ]	Yes [	] No	[ ]	Yes [	] No			
20	Fuel Switch?	If No, S	If No, Skip to Schedule 4.			kip to Sch	edule 4.	If No, S	kip to Sch	edule 4.			
	Will This Unit be Able to	[ ]	Yes [	] No	[ ]	Yes [	] No	[ ]	Yes [	] No			
21	Switch Between Oil and Natural Gas?	If No,	Skip to Li	ne 23.	If No, Skip to Line 23.			If No, Skip to Line 23.					
	If Yes, Will this Unit be Able to Switch Fuels While Operating?	[ ]	Yes [	] No	[]Yes []No			[ ]Yes [ ]No					

U.S. E	Department of Energy Energy Information Administra EIA-860 (2011)	ation	on GENERATOR REPORT Approval E INSTRUCTIONS Burden Ho					res: 10/31	1/2013	129	
	itor Name:				-		or ID:		_		
	Name:					Plant C	ode:				
Repor	ting as of December 31 of Year	· <u> </u>									
	SCHEDULE 3, PAF (COMPLE								6		
		G	enerator (	(a)	Ge	enerator (	(b)	Generator (c)			
	What is the Expected Maximum Net Summer Output Achievable (MW) When Running on Natural Gas?	IW		IW		M	IW				
	What is the Expected Maximum Net Summer Output Achievable (MW) When Running on Fuel Oil?		N	iw		N	iw	MW			
	How Much Time is Expected to be Required to Switch This Unit From Using 100% Natural Gas to Using 100% Oil?	[ ] over	hours 6 to 24 ho 24 to 72 h 72 hours. hown or ui	ours	[ ] 0 to 6 [ ] over 6 [ ] over 7 [ ] Unkno	6 to 24 ho 24 to 72 h	ours	[ ] 0 to 6 hours [ ] over 6 to 24 hours [ ] over 24 to 72 hours [ ] over 72 hours. [ ] Unknown or uncertain			
	Are There Factors That Will Limit the Unit's Ability to Switch From Natural Gas to Oil?		Yes [			Yes [			Yes [		
22	If Yes, Check All Factors That Apply	storage.	ermit limi r (specify JLE 7.	ts	[ ] Limite storage. [ ] Air Pe [ ] Other SCHEDU COMMEN	ermit limit (specify ILE 7.	ts	[ ] Limited on site fuel storage. [ ] Air Permit limits [ ] Other (specify in SCHEDULE 7. COMMENTS)			
		a b c			а	b	С	а	b	С	
23	Fuel Switching Options	d	е	f	d	е	f	d	е	f	

U.S. Department of Energy U.S. Energy Information Administrati Form EIA-860 (2011)	on <i>GENEI</i>	JAL ELECTRIC RATOR REPORT STRUCTIONS	Form Approved OMB No. 1905-012 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours		
Operator Name:					
Operator ID:			of December 31 of Y		
SCHEDULE 4. OWN	ERSHIP OF GEN	ERATORS OWNED	JOINTLY OR BY O	THERS	
PLANT NAME (a)					
EIA PLANT CODE (b)					
OPERATOR'S GENERATOR IDENTIFIC	• • • • • • • • • • • • • • • • • • • •				
	NED – OWNER	NAME AND CONTA	CT INFORMATION	` '	
Owner/Joint Owner 1: Name				% OWNED (e):	
Street Address					
City, State and Zip Code				EIA CODE:	
Joint Owner 2: Name				% OWNED (e):	
Street Address				` '	
City, State and Zip Code				EIA CODE:	
Joint Owner 3: Name				% OWNED (e):	
Street Address				,	
City, State and Zip Code				EIA CODE:	
Joint Owner 4: Name				% OWNED (e):	
Street Address				,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
City, State and Zip Code				EIA CODE:	
Joint Owner 5: Name				% OWNED (e):	
Street Address				, , ,	
City, State and Zip Code				EIA CODE:	
Joint Owner 6: Name				% OWNED (e):	
Street Address				` '	
City, State and Zip Code				EIA CODE:	
Joint Owner 7: Name				% OWNED (e):	
Street Address				` '	
City, State and Zip Code				EIA CODE:	
Joint Owner 8: Name				% OWNED (e):	
Street Address				, , ,	
City, State and Zip Code				EIA CODE:	
Joint Owner 9: Name				% OWNED (e):	
Street Address				, ,	
City, State and Zip Code				EIA CODE:	
Joint Owner 10: Name				% OWNED (e):	
Street Address				` '	
City, State and Zip Code				EIA CODE:	
				Total	100%

U.S. Energ	rtment of Energy gy Information Administration 860 (2011)	GENERATOR	ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS		Form Approved OMB No. 1905-0 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours		·0129
	lame:						
	D:		Reporting as	of Decembe	r 31 of Year	· <u>·</u>	
	SCHEDULE 5. NEW GEN COMPLETE FOR EACH GENERATOR					R YEAR 2010	))
LINE				ı		T	
1	Plant Name and EIA Plant Code	Name:		Name:		Name:	
2	Generator ID	Code:		Code:		Code:	
3	Date of Actual Generator Interconnection (MM-YYYY)						
4	Date of Initial Interconnection Request (MM-YYYY)						
5 Interconnection Site Location		City:		City:		City:	
		State:		State:		State:	
6	Grid Voltage At The Point Of Interconnection (kV)						
7	Owner of the Transmission or Distribution Facilities to Which Generator is Interconnected						
8	Total Cost Incurred for the Direct, Physical Interconnection (Thousand \$)	i					
	Equipment Included in the Direct Interconnection Cost (Check All of the Following that Apply)						
	a. Transmission or Distribution Line	e []Yes	[ ] No	[ ] Yes	[ ] No	[ ] Yes	[ ] No
9	b. Transformer	[ ] Yes	[ ] No	[ ] Yes	[ ] No	[ ] Yes	[ ] No
	c. Protective Devices	[ ] Yes	[ ] No	[ ] Yes	[ ] No	[ ] Yes	[ ] No
	d. Substation or Switching Station	[ ] Yes	[ ] No	[ ] Yes	[ ] No	[ ] Yes	[ ] No
	e. Other Equipment (specify in SCHEDULE 7. COMMENTS)	[ ] Yes	[ ] No	[ ] Yes	[ ] No	[ ]Yes	[ ] No

[ ] Yes

[ ] Yes

[ ] No

[ ] No

[ ] Yes

[ ] Yes

[ ] No

[ ] No

[ ]Yes

[ ] Yes

[ ] No

[ ] No

a. Total Cost for Other Grid Enhancements/ Reinforcements Needed to Accommodate Power

**Deliveries From the Generator** 

b. Will This Cost Be Repaid?

Were Specific Transmission Use Rights Secured as a Result of the

**Interconnection Costs Incurred?** 

(Thousand \$)

10

11

U.S. E	Department of Energy Energy Information Ad EIA-860 (2011)		ANNUAL ELEC GENERATOR RE INSTRUCTIO	PORT	Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours		
	ator Name:			<u>'</u>		rator ID:	
	Name:					t Code:	
Repoi	rting as of December 31	of Year:					
			DULE 6. BOILER II				
	(FOR PLA		RT A. PLANT CONF OR GREATER THA			S THAN 100 MW.	
		IPLETE ONLY LIN	IES 1, 2, 3 AND, IF	<b>APPLICAB</b>	LE, LIN	IES 5 AND 6)	
	FOURDMENT TYPE	EQUIPMENT					EQUIPMENT
LINE	EQUIPMENT TYPE	(a)	IDENTIFICATION (b)	(c)	ATION	(d)	(e)
1	Boiler ID(s)	(2)	(2)	(6)		(4)	(6)
2	Associated Generator ID(s)						
3	Generator Associations with Boiler as Actual or Theoretical						
4	Associated Cooling System ID(s)						
	Associated Flue Gas Particulate Collector ID(s)						
6	Associated Flue Gas Desulfurization Unit ID(s)						
7	Associated Flue ID(s)						
8	Associated Stack ID(s)						

U.S. Ene	artment of Energy rgy Information Administration	ANNUAL ELECTRIC GENERATOR REPORT			Approv	Approved val Expire	s: 10/31	/2013	-0129
Form EIA-860 (2011) INSTE			ONS			Hours:			
-	Name:				-	ator ID:			
	ne:				Plant	Code:			
Reporting	as of December 31 of Year:								
		BOILER INFORMA EQUIRED FOR PLA E A SEPARATE PA	NTS L	ESS TH	IAN 100	MW)	ARDS		
LINE	(00		<u> </u>	11 -2 10		,			
1	Boiler ID								
2a	Type Of Boiler Standards Unde Operating (use codes)	r Which The Boiler	Is	D[ ] Da[ ] Db[ ] Dc[ ] N[ ]					
2b	Is Boiler Operating Under a New Permit?	w Source Review (N	SR)			[ ] Yes	[]	10	
20	If Yes, list date (MM-YYYY) and of the issued permit			Date			Permi	t Numl	oer
	CATEGORY	PARTICULATE MATTER (a)		SUL	FUR DI (b)	OXIDE	NITR	OGEN (c)	OXIDES
3	Type of Statute or Regulation (use codes)	FD[] ST LO[] NA	[ ] [ ]	FD [ LO [	]	ST[]	FD[ LO[	]	ST[]
	Emission Standard Specified								
4a	Emission Rate								
4b	Percent Scrubbed	N/A						N/A	4
4c	Enter "N/A" if no Standard Specified								
5	Unit of Measurement Specified (use codes)								
6	Time Period Specified (use codes)								
7	Year Boiler Was or is Expected to Be in Compliance With Federal, State and/or Local Regulation								
8	If Not in Compliance with Nitrogen Oxides Standard, Strategy for Compliance (use codes)	N/A			N/A				
9	Select Existing Strategies to meet the Sulfur Dioxide and Nitrogen Oxides Requirements of Title IV of the Clean Air Act Amendment of 1990 (use codes)	N/A							
10	Select Planned Strategies to meet the Sulfur Dioxide and Nitrogen Oxides Requirements of Title IV of the Clean Air Act Amendment of 1990 (use codes)	N/A							

U.S. En	partment of Energy ergy Information Administration IA-860 (2011)	ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS	Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden Hours: 9.4 Hours	
	or Name:		Operator ID:	
	ame:		Plant Code:	
	ng as of December 31 of Year:			
	(DATA FOR LINES	ART C. BOILER INFORMATION - 3 3 – 18 NOT REQUIRED FOR PLA PLETE A SEPARATE PAGE FOR	ANTS LESS THAN 100 MW)	
LINE				
1	Boiler ID			
2	Boiler Status (use codes)			
3	Boiler Actual or Projected Date o	f Commercial Operation (MM-YY	YY)	
4	Boiler Actual or Projected Retires	ment Date (MM-YYYY)		
5	Boiler Manufacturer (use code)			
6	Type of Firing Used with Primary	Fuels (use codes)		
7	Maximum Continuous Steam Flo per hour)	w at 100 Percent Load (thousand	pounds	
8	Design Firing Rate at Maximum C 0.1 ton per hour)	Continuous Steam Flow for Coal	(nearest	
9	Design Firing Rate at Maximum (nearest 0.1 barrels per hour)	Continuous Steam Flow for Petro	leum	
10	Design Firing Rate at Maximum 0.1 thousand cubic feet per hour		nearest	
11	Design Firing Rate at Maximum C fuel and unit in SCHEDULE 7. CC	Continuous Steam Flow for other MMENTS)	specify	
12	Design Waste Heat Input Rate at (million Btu per hour)	Maximum Continuous Steam Flo	ow	
13	Primary Fuels Used in Order of P	redominance (use codes)		
14	Boiler Efficiency When Burning F (nearest 0.1 percent)	Primary Fuel at 100 Percent Load		
15	Boiler Efficiency When Burning F 0.1 percent)	Primary Fuel at 50 Percent Load (	(nearest	
16	Total Air Flow Including Excess minute at standard conditions)	Air at 100 Percent Load (cubic fe	et per	
17	Wet Or Dry Bottom (for coal-capa for Dry)	able boilers), (enter "W" for Wet o	or "D"	
18	Fly Ash Re-injection (enter "Y" fo	or Yes or "N" for No)		

U.S. Department of Energy	ANNUAL ELECTRIC	Form Approved OMB No. 1905-0129
U.S. Energy Information Administration	GENERATOR REPORT	Approval Expires: 10/31/2013
Form EIA-860 (2011)	INSTRUCTIONS	Burden Hours: 9.4 Hours

Opera	ator Name:		Орег	rator ID:	
	Name:		Plan	t Code:	
Repor	rting as of December 31 of Year:				
	SCHEDULE 6, PART D. BOILER IN (COMPLETE A	IFORMATION – NITE SEPARATE PAGE F			LS
1	Boiler ID				
2	Nitrogen Oxide Control Status (use codes)				
NITROGEN OXIDE CONTROL EQUIPMENT AND OR PROCESS					
3	Low Nitrogen Oxide Control Process (use codes)				
4	Manufacturer of Low Nitrogen Oxide Control Burners (use code)				
	SCHEDULE 6, PART E. BOILE	R INFORMATION -	MERCURY EMIS	SSION CONTROLS	
1	Does This Boiler Have Mercury Emission Controls?	Yes [	]	No [	1
2	If "Yes," Enter All Available Emission Controls Separated by Commas (use codes)				

U.S. Ener	artment of Energy gy Information Administration -860 (2011)	ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS	Form Approved OMB No. Approval Expires: 10/31/2 Burden Hours: 9.4 Hours					
	Name:		Operator ID:					
Plant Nam			Plant Code:					
	as of December 31 of Year:		1 lant 6646.					
toporting		COOLING SYSTEM INFORMATION	N - DESIGN PARAMETERS					
	SCHEDULE 6, PART F. COOLING SYSTEM INFORMATION - DESIGN PARAMETERS  (DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW)  (COMPLETE A SEPARATE PAGE FOR EACH COOLING SYSTEM)							
LINE	,		,					
1	Cooling System ID (as reported on SCHEDULE 6, PART A, Line 4)							
2	Cooling System Status (use co	des)						
3	Cooling System Actual or Proje (MM-YYYY)	ected In-Service Date of Commer	cial Operation					
4a	Type of Cooling System (use co	odes)						
4b	For Hybrid Cooling Systems, In Components	dicate Percent of Cooling Load	Served by Dry Cooling					
5a	Source (Name) of Cooling Water Including Makeup Water (if discharge is into different water body, specify in SCHEDULE 7. COMMENTS)							
5b	Type of Cooling Water Source (	(use codes)						
5c	Type of Cooling Water (use codes)							
6	Design Cooling Water Flow Rate at 100 percent Load at Intake (cubic feet per second)							
7	Actual or Projected In-Service I Equipment (MM-YYYY)	Date for Chlorine Discharge Con	trol Structures and					
		COOLING PONDS						
8	Actual or Projected In-Service I YYYY)	Date (month and year of comme	rcial operation (MM-					
9	Total Surface Area (acres)							
10	Total Volume (acre-feet)							
		COOLING TOWERS						
11	Actual or Projected In-service D	Date (MM-YYYY)						
12	Type of Towers (use codes)							
13	Maximum Design Rate of Water	r Flow at 100 Percent Load (cubi	c feet per second)					
14	•	at 100 Percent Load (megawatts)						
	ISTALLED COST OF COOLING S	SYSTEM EXCLUDING LAND AND	CONDENSERS (thousand	dollars)				
15	Total System							
16	Ponds (if applicable)							

U.S. Department of Energy U.S. Energy Information Administration Form EIA-860 (2011)		ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS	Form Approved OMB Approval Expires: 10 Burden Hours: 9.4 Ho	/31/2013		
17	Towers (if applicable)					
18	Chlorine Discharge Control Structures and Equipment (if applicable)					
	COOLING	WATER INTAKE AND OUTLE	T LOCATIONS			
	ITEM		INTAKE (a)	OUTLET (b)		
19	Maximum Distance from Shore (feet)			, ,		
20	Average Distance below Water	Surface (feet)				
21	Latitude (degrees, minutes, sec	conds)				
22	Longitude (degrees, minutes, seconds)					
23	Enter Datum for Latitude and L Otherwise Enter "UNK"	ongitude, if Known;				

U.S. Ener	artment of Energy gy Information Administration -860 (2011)	ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS	Form Approved OMB No. Approval Expires: 10/31/2 Burden Hours: 9.4 Hours		
	tor Name: Operator ID:				
Plant Nam	ne:		Plant Code:		
Reporting	as of December 31 of Year:				
		. FLUE GAS PARTICULATE COL PAGE FOR EACH FLUE GAS PA		)	
LINE					
1	Flue Gas Particulate Collector I	D (as reported on SCHEDULE 6,	PART A line 5)		
2	Flue Gas Particulate Collector Actual or Projected In-Service Date of Commercial Operation (MM-YYYY)				
3	Flue Gas Particulate Collector Status (use code)				
4	Type of Flue Gas Particulate Collector (use codes)				
5	Installed Cost of Flue Gas Parti	culate Collector Excluding Land	(thousand dollars)		
	DESIGN FUEL SPECIFICATIONS	FOR ASH (AS BURNED, TO NEA	REST 0.1 PERCENT BY W	EIGHT)	
6	For Coal				
7	For Petroleum				
DE	SIGN FUEL SPECIFICATIONS FO	OR SULFUR (AS BURNED, TO NE	AREST 0.1 PERCENT BY	WEIGHT)	
8	For Coal				
9	For Petroleum				
	DESIGN SPECIF	ICATIONS AT 100 PERCENT GEN	NERATOR LOAD		
10	Collection Efficiency (to neares	t 0.1 percent)			
11	Particulate Emission Rate (pou	nds per hour)			
12	Particulate Collector Gas Exit F	tate (actual cubic feet per minute	)		
13	Particulate Collector Gas Exit T	emperature (degrees Fahrenheit	)		

U.S. Ener	artment of Energy gy Information Administration -860 (2011)	ANNUAL ELECTRIC GENERATOR REPORT INSTRUCTIONS	Form Approved OMB No Approval Expires: 10/31, Burden Hours: 9.4 Hours	/2013	
	Name:		Operator ID:		
Plant Nan	ne:		Plant Code:		
Reporting	as of December 31 of Year:				
		JE GAS DESULFURIZATION UNI E PAGE FOR EACH FLUE GAS D		S	
LINE					
1	Flue Gas Desulfurization Unit II	O (as reported on SCHEDULE 6,	PART A line 6)		
2	Flue Gas Desulfurization Unit S	tatus (use codes)			
3	Flue Gas Desulfurization Unit A Operation (MM-YYYY)	actual or Projected In-Service Dat	te of Commercial		
4	Type of Flue Gas Desulfurization	on Unit (use code)			
5	Type of Sorbent (use code)				
6	Salable Byproduct Recovery (e	nter "Y" for Yes or "N" for No)			
7	Flue Gas Desulfurization Unit N	lanufacturer (use code)			
8	Annual Pond and Land Fill Requirements (nearest acre foot per year)				
9	Is Sludge Pond Lined (enter "Y" for Yes, "N" for No, or "NA" for Not Applicable)				
10	Can Flue Gas Bypass Flue Gas	Desulfurization Unit (enter "Y" for	or Yes or "N" for No)		
	DESIC	ON FUEL SPECIFICATIONS FOR	COAL		
11	Ash (to nearest 0.1 percent by	weight)			
12	Sulfur (to nearest 0.1 percent b	y weight)			
	NUMBER OF FLUE GAS DE	SULFURIZATION UNIT SCRUBB	ER TRAINS (OR MODULE	S)	
13	Total				
14	Operated at 100 Percent Load				
DES	IGN SPECIFICATIONS OF FLUE	GAS DESULFURIZATION UNIT A	T 100 PERCENT GENERA	TOR LOAD	
15	Removal Efficiency for Sulfur D	pioxide (to nearest 0.1 percent by	weight)		
16	Sulfur Dioxide Emission Rate (	pounds per hour)			
17	Flue Gas Exit Rate (actual cubi	c feet per minute)			
18	Flue Gas Exit Temperature (deg	grees Fahrenheit)			
19	Flue Gas Entering Flue Gas De	sulfurization Unit (percent of tota	al)		
INS	TALLED COST OF FLUE GAS DI	ESULFURIZATION UNIT, EXCLU	DING LAND (THOUSAND	DOLLARS)	
20	Structures and Equipment				
21	Sludge Transport and Disposal	System			
22	Other (installed cost of flue gas	desulfurization unit)			
23	Total (sum of lines 20, 21, 22)				

	artment of Energy gy Information Administration	ANNUAL ELECTRIC GENERATOR REPORT	Form Approved OMB No Approval Expires: 10/31		
	4-860 (2011)	INSTRUCTIONS	Burden Hours: 9.4 Hours		
	rator Name: Operator ID:				
Plant Nan			Plant Code:		
Reporting	as of December 31 of Year:				
		TACK AND FLUE INFORMATION			
		REQUIRED FOR PLANTS LESS T SEPARATE PAGE FOR EACH ST			
LINE			,		
1	Flue ID (as reported on SCHED	ULE 6, PART A line 8)			
2	Stack ID (as reported on SCHE	DULE 6, PART A line 7)			
3	Stack (or Flue) Actual or Project YYYY)	cted In-Service Date of Commerc	cial Operation (MM-		
4	Status of Stack (or Flue) (use c	ode)			
5	Flue Height at Top from Ground	d Level (feet)			
6	Cross-Sectional Area at Top of	Flue (nearest square foot)			
	DESIG	N FLUE GAS EXIT (AT TOP OF	STACK)		
7	Rate at 100 Percent Load (actual	al cubic feet per minute)			
8	Rate at 50 Percent Load (actua	l cubic feet per minute)			
9	Temperature at 100 Percent Lo	ad (degrees Fahrenheit)			
10	Temperature at 50 Percent Loa	d (degrees Fahrenheit)			
11	Velocity at 100 Percent Load (fe	eet per second)			
12	Velocity at 50 Percent Load (fe	•			
	ACTUAL SEASONAL FL	UE GAS EXIT TEMPERATURE (	DEGREES FAHRENHEIT)		
13	Summer Season				
14	Winter Season				
15	Source (enter "M" for measure	d or "E" for estimated)			
		STACK LOCATION			
16	Stack Location - Latitude (degr	ees, minutes, seconds)			
17	Stack Location - Longitude (de	grees, minutes, seconds)			
18	Enter Datum for Latitude and L	ongitude. if Known: Otherwise E	Enter "UNK"		

U.S. Department of Energy
<b>U.S. Energy Information Administration</b>
Form EIA-860 (2011)
Operator Name:

## ANNUAL ELECTRIC GENERATOR REPORT

Form Approved OMB No. 1905-0129 Approval Expires: 10/31/2013

Form EIA-860 (2011)			INSTRUCTIONS	Burden Hours: 9.4 Hours	
Operator Name:					
Operator ID: Reporting as of December 31 of Year:					
SCHEDULE 7. COMMENTS					
(USE ADDITIONAL PAGES IF NECESSARY)					
SCHEDULE	PART	LINE COMMENTS			
NUMBER	PARI	NUMBER	(Including all identifying codes such as plant code, generator ID, or boiler ID to which the comment applies)		
				, ,	
	1				