U.S. E	Stailstics & Analysis nergy Information nistration	Form EIA-923 POWER PLANT OPERATIONS REPORT INSTRUCTIONS	Year: 2013 Form Approval: OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden: 2.7 Hours					
PURPOSE	in the United States (s electric power general byproducts, operation control equipment. Th appear in many U.S. I <i>Monthly, Electric Pow</i> <i>Natural Gas Annual, C</i> Further information ca Period" information (S	s information from electric power plants and see Required Respondents immediately bel tion, fuel consumption, fossil fuel stocks, de al cooling water data, and operational data nese data are used to monitor the status an Energy Information Administration (EIA) put <i>er Annual, Monthly Energy Review, Annual</i> <i>Cost and Quality of Fuels, Quarterly Coal Re</i> an be found at <u>http://www.eia.gov/fuelelectri</u> CHEDULE 4), Nonutility "Total Delivered C prmation (SCHEDULE 2) reported on this for	ow). Data collected on this form include livered fossil fuel cost, combustion for NO _x , SO ₂ , and particulate matter d trends of the electric power industry and blications including: <i>Electric Power</i> <i>Energy Review, Natural Gas Monthly,</i> <i>eport,</i> and the <i>Renewable Energy Annual.</i> <u>c.html</u> . The "Stocks at End of Reporting ost" information (SCHEDULE 2), and					
REQUIRED RESPONDENTS	The Form EIA-923 is a mandatory report for all electric power plants and CHP plants that meet the following criteria: 1) have a total generator nameplate capacity (sum for generators at a single site) of 1 megawatt (MW) or greater; and 2) where the generator(s), or the facility in which the generator(s) resides, is connected to the local or regional electric power grid and has the ability to draw power from the grid or deliver power to the grid. To lessen the reporting burden, a sample of plants is collected on a monthly basis. Plants that are not selected to respond monthly must respond annually for the calendar year. Facilities that do not generate electricity but serve either as a transfer terminal or offsite storage facility for fossil fuel stocks for generating stations may be required to report on the Form EIA-923. See instructions for each schedule for more specific filing requirements.							
RESPONSE DUE DATE	with EIA by the last day	onthly respondents are required to file SCHEDULE 1 through SCHEDULE 5 and SCHEDULE 9 of this form ith EIA by the last day of the month following the reporting period. For example, if reporting for July, survey at are due on August 31.						
	Supplemental respondents (monthly respondents' filings of Schedule 6 through Schedule 8) are required to file the form approximately 45 calendar days after the form opens for data entry – typically around March 31 following the end of the reporting year.							
	 Annual respondents are required to file the form approximately 45 calendar days after the form opens for data entry – typically around March 31 following the end of the reporting year. (Schedules 3A, 5A, and 8D require monthly level data for the calendar year. All other schedules collect aggregated annual data for the calendar year.) See instructions for each schedule for more specific filing requirements. 							
METHODS OF								
FILING RESPONSE		tronically using EIA's secure e-file system. ainst unauthorized access during transmiss						
	If you have not registered with the e-file Single Sign-On (SSO) system, send an email requesting assistance to: EIA-923@eia.gov.							
	If you have registered with SSO, log on at: https://signon.eia.gov/ssoserver/login							
	If you are having a technical problem with logging into or using the e-file system, contact the Help Desk at:							
	Email: <u>EIASurveyHelpCenter@eia.gov</u> , or Phone: 202-586-9595							
		If you need an alternate means of filing your response, contact the Help Desk. Retain a completed copy of this form for your files.						

	ependent Statistics & Analysis .S. Energy Information dministration	Form El POWER PLANT REPORT INST	OPERATIONS	Year: 2013 Form Approval: OMB No. 1905-0129 Approval Expires: 10/31/2013 Burden: 2.7 Hours						
CONTACTS	E-file System Quest immediately above.	E-file System Questions: For questions related to the e-file system, see the help contact information								
	Data Questions: For survey manager listed	Data Questions : For questions about the data requested on the Form EIA-923, contact the appropriate survey manager listed below, preferably by email at EIA-923@eia.gov.								
		Schedules 1 & 4: Chris Cassar 202-586-5448								
		Rebecca Peterson	202-586-4509							
		Ron Hankey	202-586-2630							
	Schedules 6, 7, & 8: EIA-923 Fax:	Channele Wirman 202-287-1938	202-586-5356							
GENERAL INSTRUCTIONS	omission is discovere Revisions or adjustme not adjust the current Log on	d. Do not wait to revise ents to data should be n month to reflect a revis to the e-file system, re-l	data until the next in hade only to the sum on or adjustment to key revised data, inc	s soon as possible after the error or reporting month's form is due. vey month(s) to which they pertain. (Do a prior month submission.) licate in SCHEDULE 9 the nature and						
		evision, and resubmit th		IBMIT button)						
	• Kemem			OBMIT BUILDI).						
	closed, please email	If you are unable to make a revision through the e-file system because the monthly data file has been closed, please email your changes to <u>EIA-923@eia.gov</u> , and indicate 'Revision' in subject line. Be sure to include your Plant ID, the specific revision, and the month that is being revised.								
	prepopulated by EIA. phone numbers, addr	Verify the administratives esses, or email address	e information and mess. Please note that	of the information on the form is nake corrections to the contact name, it PLANT NAME, PLANT CODE, and ager if these items are incorrect.						
	the "Submit" button, the submit" button, the opp overridden, the system	he system will notify you oortunity to either revise m will ask for a commer	u if there are failed e the data in question t/explanation. Each	e amassed into an edit log. Upon hitting edits in the log. You will be directed to the or override it. When an edit is n explanation is reviewed by EIA and, if it or a more detailed clarification.						
	sure to indicate in SC been revised, and (4)	HEDULE 9: (1) that it is	a revision, (2) the r . If you report via th	d a corrected copy of the form, but be nonth that is being revised, (3) what has ne e-file system, send an email to the						
		ed for respondents to protection of the second s		se it to explain anomalies with data or to t.						



ITEM-BY-ITEM INSTRUCTIONS

Form EIA-923 POWER PLANT OPERATIONS REPORT INSTRUCTIONS

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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. The Survey Contact and Supervisor cannot be the same person.

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

- 3. **Report For:** Verify all information, including company name, plant name, plant identification number, plant State and county, and month or year for which data are being reported. State codes are two-character U.S. Postal Service abbreviations. These fields cannot be revised online. Contact the EIA-923 survey manager if corrections are needed.
- 4. **Regulatory Status:** Verify that the check correctly identifies your plant as either regulated or unregulated. Contact the EIA-923 survey manager if a correction is needed.
- CHP Checkbox: Verify that the check correctly indicates whether or not this facility is a combined heat and power plant, regardless of its utility/nonutility status. Contact the EIA-923 survey manager if a correction is needed.
- 6. **CHP Plant Efficiency:** If the CHP checkbox is "YES", enter the efficiency of the combined heat and power plant. To calculate the total plant efficiency, divide the sum of the energy outputs (in British thermal units (Btu)), including net generation and useful thermal output by the sum of the energy inputs (fuels converted to Btu). Report the annual average total CHP plant efficiency.

SCHEDULE 2. COST AND QUALITY OF FUEL PURCHASES - PLANT-LEVEL

REQUIRED RESPONDENTS: Coal-fueled plants 50 megawatts and above; and plants fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil 200 megawatts and above that exist for the generation of electric power or the combined production of electric power and useful thermal output must complete the appropriate data on Schedule 2, Cost and Quality of Fuel Receipts. Plants fired by self-produced fuels and/or minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, and waste oils, are not required to report.

All fuel purchases that apply (coal, natural gas, petroleum coke, distillate fuel oil, and residual fuel oil) should be reported at the plant level. However, there are two circumstances that make it necessary for the terminal or storage facility to report the fuel purchase: 1. when the fuel cannot be allocated to individual plants; and/or 2. when vendor information for cost and quality of the fuel is not available to the plant. Terminals and storage facilities must list the plants where the fuel will be utilized on Schedule 9, Comments.

In order to avoid duplicate data, report purchases at **either** the storage site **or** at the plant, but not both. Purchases reported by a storage site and then transferred to the plant should not be reported at the plant level. Instead, designate such transfers in Schedule 4 as a negative adjustment to stocks at the storage site and a positive adjustment to stocks at the plant, including appropriate comments.

Plant Name, Plant ID, State, Reporting Month and Year: For e-file users, verify the prepopulated information for these items at the top of this (and all) page(s).

If no fuel was purchased during the reporting period, place a check in the "No Receipts" box, and go to



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Schedule 3.

If this plant has a tolling agreement and the toller will not divulge the cost of the fuel, you may leave both the commodity and delivered prices blank. Report all other data. Be sure to indicate that there is a tolling agreement currently in place by entering a check in the box at the center of the page. For e-file users, this check will carry over into subsequent months. If the agreement expires, contact the survey manager to have the check removed.

SCHEDULE 2. PAGE 1. CONTRACT INFORMATION, RECEIPTS, AND COSTS.

1. Fuel Supplier Name:

Coal Purchases: Report data by supplier and mine source. (Purchased coal or petroleum coke which will be converted to synthesis gas should be reported as it is received, i.e. as coal or petroleum coke.)

Coal received from spot-market purchases and from contract purchases must be reported separately. Data on coal received under each purchase order or contract from the same supplier must be reported separately. Coal purchases can be aggregated when supplier, purchase type, contract date, coal rank, transportation mode, costs, fuel quality, and all mine information are identical. If coal received under a purchase order or contract originates in more than one State/county/mine and the mines are known as well as the amount received from each mine, split the amount received accordingly between the number of different mines and report identical quality and prices (unless the actual quality and prices are known). Mine information is reported on Page 3 of Schedule 2. If the mine or group of mines is not available on the list of mines provided for data entry on the e-filing system, contact EIA immediately (see contacts on Page 1 of the form or instructions). EIA will add appropriate choices for purchases from multiple sources to the drop down list.

Petroleum Purchases: Report data by fuel type, supplier or broker, or refinery and, if applicable, port of entry.

Oil received from spot-market purchases and from contract purchases must be reported separately. Report individual shipments as separate line items.

Gas Purchases: Report data by fuel type and supplier. Aggregation of gas deliveries from various suppliers is allowed only if the deliveries are spot purchases and the transportation contracts are identical (either firm or interruptible). For aggregated deliveries, report the pipeline or distributor in the supplier column and the weighted average cost and quality of the fuel. Contract purchases must be reported as separate line items and should never be aggregated. Do not report gas injected into storage. Report it when it is delivered to the plant. Do not report any costs associated with storage.

2. Contract Type: Use the following codes for coal, petroleum and natural gas purchases:

C – Contract Purchase – Fuel received under a purchase order or contract with a term of one year or longer. Contracts with a shorter term are considered spot purchases. (See below.)

NC – **New Contract or Renegotiated Contract Purchase** – Fuel received under a purchase order or contract with duration of one year or longer, under which deliveries were first made during the reporting month.

S – Spot-Market Purchase – Fuel received under a purchase order or contract with duration of less than one year.

3. **Contract Expiration Date:** Enter the month and the year the purchase order or contract expires. For example, report "1112" for a November "2012" expiration date. This column should be left blank if **Contract Type** contains an "S" for spot-market purchase.



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Purchases

- 4. **Energy Source:** Identify coal, natural gas, petroleum coke, distillate fuel oil and residual fuel oil using the energy source codes listed in Table 8.
- 5. Quantity Received: Enter quantities in tons for coal (on an as-received with moisture basis) and petroleum coke, barrels for oil fuels, and thousands of cubic feet for natural gas. Fuel purchases reported should pertain to the fuel that will ultimately be used only in the electric power plant for the generation of electricity and at combined heat and power plants for useful thermal output (process steam, district heating/cooling, space heating, or steam delivered to other end users). As far as possible, do not include fuel that will be used in boilers with no connection to an electric power generator and are not part of the electric power station. If these fuels cannot be separated, please provide a comment on Schedule 9, Comments. Start-up and flame-stabilization fuels should be reported. When fuel is purchased by and received at the plant and is resold, report the total receipts minus the amount sold. See the below instruction regarding how to report the costs.

Cost of Fuel

- 6. Total Delivered Cost (all fuels): Enter the delivered cost of the fuel in cents per million Btu to the nearest 0.1 cent. This cost should include all costs incurred in the purchase and delivery of the fuel to the plant. Maintenance and depreciation costs of coal delivered in railcars owned by the plant should be included. Unloading costs should not be included. Do not include adjustments associated with prior months' fuel costs. The delivered price for fuel shipped under contract should include any penalties/premiums paid or expected to be paid on the fuel delivered during the month. These adjustments should be made only by revising the appropriate prior months' submissions. The current month fuel costs should reflect only costs associated with the current month fuel deliveries. If fuel received at the plant is resold, report the commodity cost and the total delivered cost as the cents per MMBtu paid for the original receipt. Do not discount the costs by the revenue received for the sale of the fuel.
- 7. For natural gas, include the following pipeline charges: fuel losses, transportation reservation charges, balancing costs, and distribution system costs outside of the plant. Because these types of fees can skew the cost of the fuel per MMBtu, please provide an explanation in an edit log override comment, e.g. "This price includes a reservation fee of x dollars."
- 8. **Commodity Cost (Coal, Petroleum Coke, and Natural Gas Only):** The commodity cost is the price of that fuel (in cents per million Btu) at the point of first loading (free on board mine/transportation pipeline (FOB)) including taxes and any quality-related charges or credits. The commodity cost does not include: loading and unloading charges, dust proofing, freeze conditioning, switching charges, diesel fuel surcharges, pipeline charges, or any other charges relating to the movement of the fuel to the point of use. In the case of natural gas this is typically the price of the gas FOB the transmission pipeline.
- 9. For fuel purchased via a hedging contract, report the actual fuel supplier, not the hedge contract. Report the cost net of gains/losses as a result of the contract.

SCHEDULE 2. PAGE 2. QUALITY OF FUEL AND TRANSPORTATION INFORMATION

Quality of Fuel

Fuel Supplier Name, Contract Type, Quantity Purchased, and Energy Source is prepopulated for efile users based on the data entered on page 1 of SCHEDULE 2.

1. **Heat Content:** Enter the actual (not contractual) average Btu content for each fuel purchase in terms of million (MMBtu) per ton for solid fuel, MMBtu per barrel for liquid fuel, and MMBtu per thousand cubic feet for gas. Show to the nearest 0.001 MMBtu. Refer to Table 8 for approximate ranges.



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- 2. **Sulfur Content:** For all coal types, petroleum coke, and residual fuel oil, enter the sulfur content of the fuel in terms of percent sulfur by weight. Show to the nearest 0.01 percent. Refer to Table 1 for approximate ranges.
- 3. **Ash Content:** For coal and petroleum coke, enter the ash content of the fuel in terms of percent ash by weight. Show to the nearest 0.1 percent. Enter a comment in Schedule 9 if the reported ash content for coal is an estimate. Refer to Table 1 for approximate ranges.
- 4. **Mercury Content:** For coal only, enter the mercury content in parts per million (ppm). Show to the nearest 0.001 parts per million (ppm). If lab tests of the coal receipts do not include the mercury content, enter the amount specified in the contract with the supplier. Refer to Table 1 for approximate ranges. If mercury content is unknown, enter 9.

	Table 1	l	
Fuel	% Sulfur	% Ash	Mercury (ppm)
BIT	0.4 - 6.0	4.0 - 30.0	0.020 0.500
LIG	0.4 - 3.0	5.0 - 35.0	0.020 0.500
SUB	0.2 – 1.5	3.0 – 15.0	0.020 0.200
ANT	0.4 - 6.0	4.0 - 30.0	0.020 0.500
RC	0.2 - 6.0	3.0 - 30.0	0.020 0.500
WC	0.3 - 6.0	5.0 - 50.0	0.020 1.200
PC	1.0 – 7.0	0.1 1.2	
RFO	0.2 – 4.5		

Fuel Transportation

5. Natural Gas: Use the following codes for natural gas transportation service:

F – **Firm** – Gas transportation service provided on a firm basis, i.e. the contract with the gas transportation company anticipates no interruption of gas transportation service. Firm transportation service takes priority over interruptible service.

I – **Interruptible** – Gas transportation service provided under schedules or contracts which anticipate and permit interruption on short notice, such as in peak-load seasons, by reason of the claim of firm service customers and higher priority users.

(Note: Natural Gas received under firm contracts must be reported separately from interruptible contracts.)

- 6. **Predominant Mode:** The method used to transport the fuel over the longest distance from point of origin to consumer. If the shipment involves only one mode of transportation, that is the Predominant Mode. If the shipment involves more than one mode of transportation, see Secondary Mode below.
- Secondary Mode: If more than one method of transportation is used in a single shipment, the Secondary Mode of transportation is the second longest method used to transport the fuel to consumer. If more than two methods are used in a single shipment, only the Predominant and Secondary Modes should be reported.

Do not report "truck" as a transportation mode if trucks are used to transport coal exclusively on private roads between the mine and rail load-out or barge terminal.

Do not report the transportation modes used entirely within a mine, terminal, or power plant (e.g., trucks used to move coal from a mine pit to the mine load-out; conveyors at a power plant used to move coal from the plant storage pile to the plant).



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For mine-mouth coal plants, report "Conveyor" as the Predominant Mode if the conveyor feeding coal to the plant site originates at the mine. Otherwise report the Predominant Mode (typically truck or rail) used to move the coal to the plant site.

Report Transportation Modes using the following codes:

- **RR Rail:** Shipments of fuel moved to consumers by rail (private or public/commercial). Included is coal hauled to or away from a railroad siding by truck if the truck did not use public roads.
- **RV River:** Shipments of fuel moved to consumers via river by barge. Not included are shipments to Great Lakes coal loading docks, tidewater piers, or coastal ports.
- GL Great Lakes: Shipments of coal moved to consumers via the Great Lakes. These shipments are moved via the Great Lakes coal loading docks, which are identified by name and location as follows: Conneaut Coal Storage & Transfer, Conneaut, Ohio NS Coal Dock (Ashtabula Coal Dock), Ashtabula, Ohio

Sandusky Coal Pier, Sandusky, Ohio Toledo Docks, Toledo, Ohio KCBX Terminals Inc., Chicago, Illinois Superior Midwest Energy Terminal, Superior, Wisconsin

TP – Tidewater Piers and Coastal Ports: Shipments of coal moved to Tidewater Piers and Coastal Ports for further shipments to consumers via coastal water or ocean. The Tidewater Piers and Coastal Ports are identified by name and location as follows:

Dominion Terminal Associates, Newport News, Virginia McDuffie Coal Terminal, Mobile, Alabama IC Railmarine Terminal, Convent, Louisiana International Marine Terminals, Myrtle Grove, Louisiana Cooper/T. Smith Stevedoring Co. Inc., Darrow, Louisiana Seward Terminal Inc., Seward, Alaska Los Angeles Export Terminal, Inc., Los Angeles, California Levin-Richmond Terminal Corp., Richmond, California Baltimore Terminal, Baltimore, Maryland Norfolk Southern Lamberts Point P-6, Norfolk, Virginia Chesapeake Bay Piers, Baltimore, Maryland Pier IX Terminal Company, Newport News, Virginia Electro-Coal Transport Corp., Davant, Louisiana

WT - Water: Shipments of fuel moved to consumers by other waterways.

TR – Truck: Shipments of fuel moved to consumers by truck. Not included is fuel hauled to or away from a railroad siding by truck on non-public roads.

- TC Tramway/Conveyor: Shipments of fuel moved to consumers by tramway or conveyor.
- SP Slurry Pipeline: Shipments of coal moved to consumers by slurry pipeline.
- PL Pipeline: Shipments of fuel moved to consumers by pipeline.

SCHEDULE 2. PAGE 3. COAL MINE INFORMATION

Fuel Supplier Name, Contract Type, Quantity Purchased, and Energy Source is prepopulated for e-file users based on the data entered on page 1 of SCHEDULE 2.

1. **State or Country of Origin**: Choose the two-letter U.S. Postal Service abbreviation or country code from the drop down list of coal producing states (countries). For imported coal, insert the two-letter



country code shown here.

AS – Australia; CN – Canada; CL – Colombia; IS – Indonesia; PL – Poland;

RS – Russia; **VZ** – Venezuela; **OT** – Other (specify the country in Schedule 9).

The State of Origin is mandatory. If purchases originate from a broker, barge site or other third party, you must contact the broker, barge site or other party and find out the State(s) where the coal originates. If the broker or supplier is not forthcoming with State of Origin information or Mine Information, provide the name and telephone number of the supplier on Schedule 9, Comments.

If coal purchased under a purchase order or contract originates in more than one State, determine from the supplier the most dominant or probable State(s) of origin for the coal. Contact EIA to have the supplier and State(s) added to the drop down list of choices for State of Origin and Mine Information on Schedule 2 Page 3. If the amount of coal from each State/Mine is known, allocate the purchase among multiple States, or report the State where the majority of the coal originates and report identical quality and costs are known).

Contact EIA immediately (see contacts on Page 1 of the form or instructions) for assistance in reporting coal State of Origin or Mine Information. EIA will add appropriate choices for purchases from multiple sources to the drop down list.

Mine Information: Choose from the drop down list the mine of origin. The list will display only those
mines located in the State/country of origin. The displayed information includes the mine operating
company for informational purposes to aid in identifying the mine of origin. Upon choosing a mine, the
MSHA ID, Mine Name, Mine Type and Mine County will automatically be populated.

Mine Information is mandatory. If coal purchased under a purchase order or contract originates in more than one State, determine from the supplier the most dominant or probable mine(s) of origin for the coal. List the mines on Schedule 9, Comments. If the broker or supplier is not forthcoming with State of Origin information or Mine Information, provide the name and telephone number of the supplier on Schedule 9, Comments.

In cases where coal originates from multiple mines or the specific mine information cannot be determined, list the tipple/loading point or dock on Schedule 9, Comments. EIA will add appropriate choices to the drop down list of Mine Information to accommodate multiple mines or undetermined mine sources. Use Schedule 9, Comments, to provide detailed explanations of mine origin data, including names of multiple mines for a specific supplier/broker or dock, or the most probable origin of the coal (county/State) if not specifically known.

Contact EIA immediately (see contacts on Page 1 of the form or instructions) for assistance in reporting coal State of Origin or Mine Information. EIA will add appropriate choices for purchases from multiple sources to the drop down list.

SCHEDULE 3. PART A. BOILER-LEVEL INFORMATION FOR STEAM-ELECTRIC ORGANIC-FUELED PLANTS – FUEL CONSUMPTION

Required Respondents: Complete this schedule for fuels consumed in the boilers at plants with steam turbines that have a total nameplate capacity of 10 MW and above and burn organic fuels. This does not include steam turbines where the energy source is nuclear, geothermal, or solar, or plants that have less than 10 MW total steam turbine nameplate capacity.

Also report on this schedule fuels consumed at combined-cycle plants for supplementary firing of heat recovery steam generator (HRSG) units that have a total steam turbine nameplate capacity of 10 MW and above. If no fuel is consumed, for example in combined-cycle steam units (HRSG) without supplementary



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firing, report zero. Do not leave the field blank. Report fuels consumed in gas turbines, including the gas turbines at combined-cycle plants, and IC engines on SCHEDULE 3 PART B.

For combined heat and power plants, if steam was produced for purposes other than electric power generation during this reporting period, please place a check in the box on the form.

For those plants that report annually, Schedules 3A and 5A must be reported for each month.

Prime movers are devices that convert one energy form (such as heat from fuels or the motion of water or wind) into mechanical energy. Examples include steam turbines, combustion turbines, reciprocating engines, and water turbines. For a complete list of prime mover codes, please refer to Table 7.

Prime Mover Code: Prime mover codes are shown in Table 7. Only CA and ST can be used in Schedule 3. Part A. For e-file users, the code is prepopulated. If the prepopulated code is incorrect, delete the code and choose the correct prime mover code from the drop-down list.

Boiler ID: The boiler ID is prepopulated. For an ID not prepopulated, choose the ID from the drop down list of boiler IDs reported for your plant on the Form EIA-860. If the boiler ID is not on the list, contact EIA immediately to have the ID added to your form. Boiler IDs must match those reported on the Form EIA-860.

Boiler Status: Enter one of the codes listed below:

	l ablé z
Code	Boiler Status
OP	Operating (in commercial service or out of service less than 365 days)
OS	Out of service (365 days or longer)
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)

Table 2

Energy Source: Use the fuel codes in Table 8. For bituminous and subbituminous coal that is blended, where possible report each coal rank consumed separately. If no allocation can be determined, report the fuel that is predominant in quantity. An estimated allocation between coal ranks is acceptable. For energy source codes OTH, OBS, OBG, OBL and OG, specify the fuel in the area at the bottom of the page.

Quantity Consumed: For each month, report the amount of fuel consumed for electric power generation and, at combined heat and power stations, for useful thermal output. Include start-up and flame-stabilization fuels. Combined-cycle units should report only the auxiliary firing fuel associated with the HRSG. Do not report the fuel consumed in the combustion turbine portion of the combined-cycle unit on Schedule 3A. CT consumption must be reported on Schedule 3B.

Type of Physical Units: Fuel consumption must be reported in the following units:

Solids – Tons Liquids – Barrels (one barrel equals 42 U.S. gallons) Gases – Thousands of cubic feet (Mcf)

Average Heat Content: For each month, report the heat content of the fuels burned to the nearest 0.001 million Btu (MMBtu) per physical unit. The heat content of the fuel should be reported as the gross or "higher heating value" (rather than the net or lower heating value). The higher heating value exceeds the lower heating value by the latent heat of vaporization of the water. The heating value of fuels generally used and reported in a fuel analysis, unless otherwise specified, is the higher heating value. If the fuel heat content cannot be reported "as burned," data may be obtained from the fuel supplier on an "as



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received" basis. If this is the case, indicate on SCHEDULE 9 that the fuel heat content data are "as received." Report the value in the following units: solids in million Btu (MMBtu) per ton; liquids in MMBtu per barrel; and gases in MMBtu per thousand cubic feet (Mcf). Refer to Table 8 for approximate ranges of heat content of specific energy sources.

Sulfur Content (petroleum, petroleum coke, and coal): For each month, enter sulfur content to nearest 0.01 percent. Sulfur content should be reported for the following fuel codes: ANT, BIT, LIG, RC, SUB, WC, PC, RFO, and WO. Refer to Table 1 for approximate ranges.

Ash Content (coal and petroleum coke only): For each month, enter ash content to the nearest 0.1 percent. Ash content should be reported for the following fuel codes: ANT, BIT, LIG, SUB, WC, RC, and PC. Refer to Table 1 for approximate ranges.

Report actual values. If necessary, report estimated values and state that the value is an estimate on SCHEDULE 9.

ENTER ZERO when an energy source was not consumed for the reporting period. Do not leave blank.

SCHEDULE 3. PART B. FUEL CONSUMPTION – PRIME MOVER-LEVEL

Required Respondents: Report fuel consumed in all gas turbines, including the combustion turbine part of combined-cycle plants, internal combustion engines, steam-electric plants under 10 megawatts, fuel cells, and electric power input to pumped-storage hydroelectric plants, compressed air units, and other miscellaneous energy storage technologies. Excluded from this schedule are conventional hydroelectric plants and all other plants that are not required to report energy consumed (e.g., wind, solar, geothermal, and nuclear). Do not report for each individual unit. For example, report natural gas consumed in all combustion turbines (GT) at the plant as one value and report distillate fuel oil consumed by all IC engines as one value. Combined-cycle plants should report the fuel consumed by the combustion turbines (CT) on this schedule. Report supplementary fuel consumed by the HRSG on this schedule only if the total steam-electric capacity is less than 10 MW. All steam-electric plants and HRSGs at combined-cycle plants with a total steam electric nameplate of 10 MW and above must report fuel consumption at the boiler level on Schedule 3A.

Prime movers are devices that convert one energy form (such as heat from fuels or the motion of water or wind) into mechanical energy. Examples include steam turbines, combustion turbines, reciprocating engines, and water turbines.

For combined heat and power plants, if steam was produced for purposes other than electric power generation during this reporting period, please place a check in the box on the form.

Prime Mover Code: Prime mover codes are shown in Table 7. Only CA, CE, CS, CT, FC, GT, IC, PS, ST, and OT can be used in Schedule 3. Part B. For e-file users, the code is prepopulated. If the prepopulated code is incorrect, choose the correct code from the drop-down list. Each prime mover type on Schedule 3B must have a corresponding entry on Schedule 5B for electric power generation.

Report actual values. If necessary, report estimated values and state that the value is an estimate on SCHEDULE 9.

Energy Source: Use the fuel codes in Table 8. For bituminous and subbituminous coal that is blended, where possible report each coal rank consumed separately. If no allocation can be determined, report the fuel that is predominant in quantity. An estimated allocation between coal ranks is acceptable. For energy source codes OTH, OBS, OBG, OBL and OG, specify the fuel in the area at the bottom of the page.

Quantity Consumed: For each month, report the amount of fuel consumed for electric power generation and, at combined heat and power stations, for useful thermal output. Include start-up and flamestabilization fuels. Pumped storage hydroelectric plants and compressed air plants report the megawatthours of energy input for pumping water or compressing air for energy storage. Combined-cycle plants with no supplementary firing must report the CA unit on Schedule 3B with ZERO for fuel consumed. Each prime



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mover type on Schedule 3B must have a corresponding entry on Schedule 5B for electric power generation.

Type of Physical Units: Fuel consumption must be reported in the following units:

Solids – Tons Liquids – Barrels (one barrel equals 42 U.S. gallons) Gases – Thousands of cubic feet (Mcf) Pumped storage hydro and compressed air -- Megawatthours

Average Heat Content: For each month, report the heat content of the fuels burned to the nearest .001 MMBtu (million Btu) per physical unit (MMBtu per ton/barrel/thousand cubit feet). The heat content of the fuel should be reported as the gross or "higher heating value" (rather than the net or lower heating value). The higher heating value exceeds the lower heating value by the latent heat of vaporization of the water. The heating value of fuels generally used and reported in a fuel analysis, unless otherwise specified, is the higher heating value. If the fuel heat content cannot be reported "as burned," data may be obtained from the fuel supplier on an "as received" basis. If this is the case, indicate on SCHEDULE 9 that the fuel heat content data are "as received." Report the value in the following units: solids in MMBtu per ton; liquids in MMBtu per barrel; and gases in MMBtu per thousand cubic feet (Mcf). Refer to Table 8 for approximate ranges of heat content for specific fuels. Heat content can be blank if fuel consumed is zero and for pumped storage and compressed air plants.

SCHEDULE 4. FOSSIL FUEL STOCKS AT THE END OF THE REPORTING PERIOD AND DATA BALANCE

Required Respondents: Schedule 4 regarding stocks must be completed by all plants that burn fossil fuels: COAL, DISTILLATE FUEL OILS (NO. 2, 4), RESIDUAL FUEL OIL (NO. 6), JET FUEL, KEROSENE, PETROLEUM COKE, and for plants 50 MW and above, NATURAL GAS. Although there are no stocks for natural gas, the energy balance (between receipts and consumed fuel) and comments should be completed for natural gas plants that have a total nameplate capacity of 50 MW and more (and have completed Schedule 2).

Report fuel stocks ONLY for the following fuels:

- Coal: Report all stocks of coal for use by this power plant. Include both stocks held on site and stocks held off site whether owned by your plant or by an affiliated company. If the stocks are held for the plant by an affiliated company and the amount is unknown, please provide EIA the name of the company. EIA will contact them to obtain the stocks number. Do not report waste coal stocks.
- Residual oil (No. 5 and No. 6 fuel oils)
- Distillate-type oils (including diesel oil, No. 2 oil, jet fuel, and kerosene)
- Petroleum coke

Include back-up fuels and start-up and flame-stabilization fuels. Do not report stocks for waste coal, natural gas, or wood and wood waste or other biomass fuels. All fuel stocks should be reported at the plant level where possible. Stocks data should be reported by a transfer terminal or storage facility only if inventory cannot be attributed to individual plants.

To avoid duplication, do not report receipts in Schedule 2 at the plant level that have already been reported by a transfer terminal or storage facility and then transferred to a plant(s). Designate such transfers in Schedule 4 as negative adjustments to stocks at the transfer terminal or storage facility and positive adjustments to stocks at the plant, including appropriate comments. Depending on the required data at transfer terminals or



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storage sites and associated plants, the energy balance may require an explanatory comment. **ENTER ZERO** in the Ending Stocks column if a plant has no stocks. Do not leave the field blank.

Energy Source: For e-file users, the energy source code is prepopulated. If needed, add an energy source code from the drop-down list. Energy source codes cannot be deleted from Schedule 4.

Type of Physical Units: Report coal and petroleum coke in tons and distillate and residual oils in barrels.

- 1. **Previous Month's Ending Stocks:** This is automatically populated into the schedule from the previous reporting period.
- 2. **Current Month's Purchases:** These data have been reported (above in SCHEDULE 2) and the sum by energy source is automatically populated.
- 3. **Current Month's Consumption:** These data have been reported (in SCHEDULE 3A and 3B) and the sum by energy source is automatically populated.
- 4. **Ending Stocks:** Report this month's ending stocks. Include all on-site stocks held for eventual use in the electric power plant regardless of actual ownership of the fuel.
- 5. Adjustment to Stocks: Report adjustments to end-of-month stocks. Adjustments may include stocks transferred or sold offsite and revisions to account for adjustments to previous months' stocks. Adjustments can be positive or negative. Enter an explanation for the adjustment in the section provided on Schedule 4.
- 6. Balance: The data balance verifies the quality of the data. The balance is the difference between Reported Ending Stocks (4) and an expected value for ending stocks calculated by the following equation: Previous Month's Ending Stocks plus Current Month's Purchases minus Current Month's Consumption plus (or minus) Adjustment to Stocks [(4) = (1) + (2) (3) + (5)]. If the balance is a non-zero value, please review the data entered for stocks, receipts, consumption, and adjustments. Enter a comment in the box on Schedule 4 for Balance comments to explain any discrepancy. Fuel receipts that are not used for the production of electricity but for other purposes at the plant (e.g. as a feed material to produce chemical byproducts such as fertilizers, etc.) may cause an imbalance in the equation. Likewise, fuel that is sold during the month may cause an imbalance. Enter an adjustment to balance the equation and enter an explanation for the adjustment or other situation that result in an imbalance. Note that there are separate areas on Schedule 4 for adjustment explanations and explanations for balances not equal to zero.

SCHEDULE 5. PART A. GENERATOR INFORMATION FOR STEAM-ELECTRIC ORGANIC-FUELED PLANTS

Required Respondents: This schedule will be completed ONLY for generators at steam-electric organicfueled plants with a total steam turbine capacity of 10 megawatts and above, including the steam turbine generation from combined-cycle units. Report generation for all other types of prime movers (combustion turbines, IC engines, wind, and hydraulic turbines), and steam turbine capacity of less than 10 megawatts and all plants fueled by nuclear, solar, geothermal, or other energy sources on SCHEDULE 5. PARTS B or C. Generation reported on Schedule 5. Part A. corresponds to the fuel consumption reported on Schedule 3. Part A.

For those plants that report annually, Schedules 3.A. and 5.A. must be reported for each month.

Prime Mover Code: Prime mover codes are shown in Table 7. Only CA and ST can be used in Schedule 5. Part A. For e-file users, the code is prepopulated. If the prepopulated code is incorrect,



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choose the correct prime mover code from the drop-down list.

Generator ID: The generator ID is prepopulated. For an ID not prepopulated, choose the ID from the drop down list of generator IDs that were reported for your plant on the Form EIA-860. If the generator ID is not on the list, contact EIA immediately to have the ID added to your form. Generator IDs must match those reported on the Form EIA-860.

Data must be reported in megawatthours (MWh), rounded to whole numbers, no decimals.

If no generation occurred, report **ZERO**. Please do not leave fields blank.

Generator Status: Enter one of the codes listed in Table 3 for generator status.

Table 3

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
TS	Operating under test conditions (not in commercial service)

Gross Generation: Enter the total amount of electric energy produced by generating units and measured at the generating terminal. For each month, enter that amount in MWh.

Net Generation: Enter the net generation (gross generation minus the parasitic station load, i.e. station use). If the monthly station service load exceeded the monthly gross electrical generation, report negative net generation with a minus sign, not parentheses. For each month, enter that amount in MWh. Combined heat and power plants in the industrial and commercial sectors may choose to leave net generation blank in cases where net generation cannot be determined. Please note that net generation is not defined as electric power sold to the grid (net of direct use), but as gross minus station use. If station use is not separable from direct use at combined heat and power plants, report only gross generation and leave net generation blank.

SCHEDULE 5. PART B. PRIME MOVER LEVEL GENERATION

Required Respondents: This schedule will be completed by: 1) steam-electric organic-fueled plants with a total steam turbine capacity less than 10 megawatts, 2) combined-cycle plants whose steam portion of the operation is under 10 MW and 3) all IC engines, combustion turbines, compressed air units, pumped-storage hydroelectric turbines, and other miscellaneous energy storage technologies. Generation reported on this schedule corresponds to the fuel consumption reported on Schedule 3. Part B.

Prime Mover Code: Prime mover codes are shown in Table 7. Only CA, CE, CS, CT, FC, GT, IC, PS, ST, and OT can be used in Schedule 5. Part B. For e-file users, the code is prepopulated. If the prepopulated code is incorrect, choose the correct prime mover code from the drop-down list. Each prime mover type on Schedule 5B must have a corresponding entry on Schedule 3B for fuel consumption. Note that for prime mover type CA, the entry on Schedule 3B (fuel consumed) is ZERO. If no generation occurred, report zero. Do not leave fields blank. Data must be reported in MWh, rounded to whole numbers, with no decimals.



Independent Statistics & Analysis U.S. Energy Information Administration

Form EIA-923 POWER PLANT OPERATIONS REPORT INSTRUCTIONS

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Gross Generation: Enter the total amount of electric energy produced by generating units and measured at the generating terminal. For each month, enter in the MWh generated.

Net Generation: Enter the net generation (gross generation minus the parasitic station load, i.e. station use). If the monthly station service load exceeded the monthly gross electrical generation, report negative net generation with a minus sign. Do not use parentheses. For each month, enter that amount in MWh. Combined heat and power plants in the industrial and commercial sectors may choose to leave net generation blank in cases where net generation cannot be determined. Please note that net generation is not defined as electric power sold to the grid (net of direct use), but as gross minus station use. If station use is not separable from direct use at combined heat and power plants, report only gross generation and leave net generation blank.

SCHEDULE 5. PART C. GENERATION FROM NUCLEAR AND OTHER NONCOMBUSTIBLE ENERGY SOURCES

Required Respondents: This schedule will be completed by all nuclear plants and by all wind, solar, geothermal, conventional hydroelectric or other plants where the energy source is not required to be reported on Schedules 3A or 3B, such as purchased steam or waste heat. No fuel consumption data is required for these types of plants. Report generation by energy source for nuclear, wind, solar, geothermal, conventional hydroelectric and miscellaneous sources such as purchased steam or waste heat. Report nuclear data by generating unit. For all other plant types, ignore the unit column. Do not report generation at a combined-cycle plant. All combined-cycle generation is reported on SCHEDULE 5. PARTS A or B, even though the fuel consumption for non-supplementary fired HRSG units is zero (reported on Schedule 3A or 3B with a zero for fuel).

Prime Mover Code: Prime mover codes are shown in Table 7. Only HY, HA, HB, HK, BT, PV, ST, WT, and OT can be used in Schedule 5. Part C. For e-file users, the code is prepopulated. If the prepopulated code is incorrect, choose the correct prime mover code from the drop-down list.

Energy Source: Enter one of the fuel codes listed in Table 8.

Unit Code: The nuclear unit code is prepopulated. Contact EIA if it is incorrect. All other plants ignore this field.

Gross Generation: Enter the total amount of electric energy produced by generating units and measured at the generating terminal. For each month, enter that amount in MWh.

Net Generation: Enter the net generation (gross generation minus the parasitic station load, i.e. station use). If the monthly station service load exceeded the monthly gross electrical generation, report negative net generation with a minus sign. Do not use parentheses. For each month, enter that amount in MWh. Combined heat and power plants in the industrial and commercial sectors may choose to leave net generation blank in cases where net generation cannot be determined. Please note that net generation is not defined as electric power sold to the grid (net of direct use), but as gross minus station use. If station use is not separable from direct use at combined heat and power plants, report only gross generation and leave net generation blank.

SCHEDULE 6. NONUTILITY ANNUAL SOURCE AND DISPOSITION OF ELECTRICITY

Required Respondents: Nonutility plants report annual calendar year data for the source and disposition of electricity.

- If you file the EIA-923 <u>monthly</u>, this schedule is completed on the Form EIA-923 Supplemental Form and is filed annually.
- If you file the EIA-923 annually, this schedule is completed on the Form EIA-923 Annual.



Report all generation in MWh rounded to a whole number.

Source of Electricity

- 1. **Gross Generation (Annual):** Report the total gross generation from all prime movers at the plant. Note that for monthly respondents this should equal the sum of the gross generation reported each month on Schedules 5A, 5B, and 5C.
- 2. **Other Incoming Electricity:** Report all incoming electricity to the facility, whether from purchases, tolling agreements, transfers, exchanges, or other arrangements.
- 3. **Total Sources:** The sum of the total gross electricity generated plus the total incoming electricity is automatically calculated and displayed. The Total Sources must equal Total Disposition (see below).

Disposition of Electricity

- 4. Station Use: Station Use is electricity that is used to operate an electric generating plant, which is the electricity used in the operation and maintenance of the facility (e.g., parasitic loads from auxiliary equipment), regardless of whether the electricity is produced at the plant or comes from another source. Station use does not include any electricity converted and stored at an energy storage plant (such as electricity used for pumping at a hydroelectric pumped-storage plant), nor direct use (see below) of electricity by an industrial or commercial CHP plant.
- 5. **Direct Use (Industrial and Commercial Sector Plants, both CHP and non-CHP):** Report the amount of electricity generated by the plant and consumed onsite for processes such as manufacturing, district heating/cooling, and uses other than power plant station use. (Plants that cannot separate Station Use and Direct Use may enter zero in Station Use and the sum of Station Use and Direct Use in the Direct Use field. Provide a comment on SCHEDULE 9.)
- 6. Total Facility Use: The sum of station use and direct use is calculated and displayed.
- 7. Retail Sales to Ultimate Customers: Report the amount of electricity sold directly to retail (end-use) customers (power that is not re-sold or distributed by another entity). Include unbilled electricity provided to affiliated and non-affiliated entities, excluding power provided as part of a tolling agreement. By entering a value in this cell, you will be required to file the Form EIA-861 "Annual Electric Power Industry Report," for more detailed information on the nature of the retail sales.
- 8. **Sales for Resale:** Report the amount of electricity sold for resale (wholesale sales in MWh). If data are entered for this item, you must complete SCHEDULE 7.
- 9. Other Outgoing Electricity: Report all other outgoing electricity from the facility, such as tolling agreements, transfers, and exchanges. Specify the nature of Other Outgoing Electricity on Schedule 9, Comments.
- 10. **Total Disposition:** The sum of station use, direct use, retail sales, sales for resale, and other outgoing electricity is automatically calculated and displayed. Total Disposition must equal Total Sources (see above).

SCHEDULE 7. ANNUAL REVENUES FROM SALES FOR RESALE

Required Respondents: To be completed by respondents who report a positive value on SCHEDULE 6, Disposition of Electricity, Item 8, Sales for Resale.

"Sales for Resale" is energy supplied to other electric utilities, cooperatives, municipalities, Federal and State electric agencies, power marketers, or other entities for resale to end-use consumers. This excludes energy supplied under tolling agreements that is intended for resale to end use customers. Report energy supplied under tolling agreements in "Other Outgoing Electricity." Report all revenue from Sales for Resale in thousand dollars to the nearest whole number.



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SCHEDULE 8. ANNUAL ENVIRONMENTAL INFORMATION

Required Respondents: SCHEDULE 8 is filed annually and must be reported by steam-electric (thermoelectric) power plants, including nuclear and combined-cycle plants, with a total steam turbine capacity of 10 megawatts and above. Parts A through F are required for plants 100 MW and above, and only Parts C, E and F are required for plants from 10 megawatts to less than 100 MW.

- If you file the EIA-923 <u>monthly</u>, this schedule is completed on the Form EIA-923 Supplemental and is filed annually.
- If you file the EIA-923 <u>annually</u>, this schedule is completed on the Form EIA-923 Annual.

SCHEDULE 8. PART A. ANNUAL BYPRODUCT DISPOSITION

- 1. If no byproduct was produced, place a check in the checkbox labeled NO BYPRODUCTS.
- 2. If a byproduct is disposed of at no cost, enter the quantity of the byproduct under the appropriate column and make a footnote entry on SCHEDULE 9 stating that no money was exchanged for the quantity indicated. If there was a cost for disposal, make sure there is a corresponding entry on SCHEDULE 8, PART B, for collection and/or disposal costs. Costs for gypsum disposal should be reported on SCHEDULE 8, PART B, column 5, under "Disposal," with a footnote entry on SCHEDULE 9. Entries on SCHEDULE 8, PART A, in the Sold column, must be compatible with entries on SCHEDULE 8, PART B, columns 11 through 16, Byproduct Sales Revenue. If the byproduct was distributed in several different ways (for example, the byproduct was placed in a landfill and then later sold), report the end disposition of the byproduct and provide a comment on SCHEDULE 9 explaining all previous dispositions.
- 3. Do not include byproducts sold under "Used On-Site."
- 4. Fly ash from standard boiler/primary particulate collection device (PCD) units includes those with no flue gas desulfurization (FGD) system or with FGD systems located downstream of the PCD.
- 5. Fly ash from units with dry FGD includes spray dryer or duct injection systems where Fly Ash and FGD byproducts are collected in the same PCD. It does not include Fluidized Bed Combustion (FBC) units.
- 6. Fly ash from FBC units includes fly ash from fluidized bed combustion (FBC) units.
- 7. Bottom ash from standard boiler units includes boiler slag from slagging combustors. It does not include Bottom (Bed) Ash from FBC units or slag from coal gasification units.
- 8. Bottom (bed) ash from FBC units includes bottom (bed) ash from fluidized bed combustion (FBC) units.
- 9. **FGD Gypsum** is defined as byproducts that are greater than 75 percent $CaSO_4 \bullet 2H_20$ by weight.
- 10. Other FGD byproducts includes all FGD byproducts not reported in Fly ash from units with dry FGD units; Fly ash from FBC units; Bottom ash from standard boiler units; Bottom (bed) ash from FBC units; and FGD gypsum along with additives used to stabilize the FGD byproducts.
- 11. Ash from coal gasification (IGCC) units includes slag or solids extracted from the bottom of the gasifier as well as fly ash removed downstream of the gasifier.
- 12. Other: Enter amount of other by-products. Specify the by-product on Schedule 9, Comments.
- 13. Steam sales must be reported in million Btu (MMBtu).

SCHEDULE 8. PART B. FINANCIAL INFORMATION RELATED TO COMBUSTION BYPRODUCTS

- 1. All entries should be reported in thousand dollars to the nearest whole number.
- 2. For all **Operation and Maintenance (O&M) Expenditures during Year**, costs should be provided for both collection and disposal of the indicated byproducts. If the collection and disposal costs cannot be separated, place the total cost under **Collection**, and provide a comment on SCHEDULE 9 indicating that the costs cannot be separated. All operation and maintenance expenditures should exclude depreciation expense, cost of electricity consumed, and fuel differential expense (i.e., extra costs of cleaner, thus more expensive fuel). Include all contract and self-service pollution abatement operation



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and maintenance expenditures for each line item.

- 3. For column 1, **Fly Ash**, and column 2, **Bottom Ash**, expenditures cover all material and labor costs including equipment operation and maintenance costs (such as particulate collectors, conveyors, hoppers, etc.) associated with the collection and disposal of the byproducts. Record expenditures for IGCC slag or fly ash collection/disposal in Column (1) or Column (2), respectively.
- 4. For column 3, **Flue Gas Desulfurization**, expenditures cover all material and labor costs including equipment O&M costs associated with the collection and disposal of the sulfur byproduct.
- 5. For column 4, Water Pollution Abatement, expenditures cover all operation and maintenance costs for material and/or supplies and labor costs including equipment operation and maintenance (pumps, pipes, settling ponds, monitoring equipment, etc.), chemicals, and contracted disposal costs. Collection costs include any expenditure incurred once the water that is used at the plant is drawn from its source. Begin calculating expenditures at the point of the water intake. Disposal costs include any expenditure incurred once the water that is used at the plant is discharged. Begin calculating disposal expenditures at the water outlet (i.e., cooling costs).
- 6. For column 5, Other Pollution Abatement, operation and maintenance expenditures are those not allocated to one particular expenditure (e.g., expenditures to operate an environmental protection office or lab). Include expenses for conducting environmental studies for expansion or reduction of operation. Exclude all expenses for health, safety, employee comfort (OSHA), environmental aesthetics, research and development, taxes, fines, permits, legal fees, Superfund taxes, and contributions. Define other pollution abatement(s) in a comment on SCHEDULE 9.
- 7. For Capital Expenditures for New Structures and Equipment during Year, Excluding Land and Interest Expense, report all pollution abatement capital expenditures for new structures and/or equipment made during the reporting year regardless of the date they may become operational. Columns 7, 8, 9, and 10 should not be left blank. ENTER ZERO if the item is not applicable or an estimate is not available, and enter a comment in SCHEDULE 9. Specify the nature of the expenditures for these items in a comment on SCHEDULE 9.
- 8. For column 7, Air Pollution Abatement, report new structures and/or equipment purchased to reduce, monitor, or eliminate airborne pollutants, including particulate matter (dust, smoke, fly ash, dirt, etc.), sulfur dioxides, nitrogen oxides, carbon monoxide, hydrocarbons, odors, and other pollutants. Examples of air pollution abatement structures/equipment include flue gas particulate collectors, FGD units, continuous emissions monitoring equipment (CEMs), and nitrogen oxide control devices. Specify new structures/equipment in a comment on SCHEDULE 9.
- 9. For column 8, Water Pollution Abatement, report new structures and/or equipment purchased to reduce, monitor, or eliminate waterborne pollutants, including chlorine, phosphates, acids, bases, hydrocarbons, sewage, and other pollutants. Examples include structures/equipment used to treat thermal pollution; cooling, boiler, and cooling tower blowdown water; coal pile runoff; and fly ash waste water. Water pollution abatement excludes expenditures for treatment of water prior to use at the plant. Specify new structures/equipment in a comment on SCHEDULE 9.
- 10. For column 9, Solid/Contained Waste, report new structures/equipment purchased to collect and dispose of objectionable solids or contained liquids. Examples include purchases of storage facilities, trucks, etc., to collect, store, and dispose of solid/contained waste. Include equipment used for handling solid/contained waste generated as a result of air and water pollution abatement. Specify new structures/equipment in a comment on SCHEDULE 9.
- 11. For column 10, Other Pollution Abatement, report amortizable expenses and purchases of new structures and or equipment when such purchases are not allocated to a particular unit or item. Examples include charges for the purchases of facilities to control hazardous waste, radiation, and noise pollution. Exclude all equipment purchased for aesthetics purposes. Specify new structures/equipment in a comment on SCHEDULE 9.
- 12. If **Byproduct Sales Revenue during Year** items are not applicable, ENTER ZERO in Total, column 16, only. Report the revenue, if any, for each listed byproduct. Specify "other" revenue in a comment on SCHEDULE 9. Entries must be compatible with the entries on SCHEDULE 8, PART A, "Sold"



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column. If the revenue for a byproduct is less than \$500, but more than zero dollars, enter a zero and enter a comment on SCHEDULE 9 with the actual dollar amount. Revenue for gypsum should be reported on SCHEDULE 8, PART B, column 14, with a comment on SCHEDULE 9. Report the total revenue for the sale of byproducts in column 16. If the revenue reported was for the sale of stockpiled byproducts from previous years, make a comment on SCHEDULE 9.

SCHEDULE 8. PART C. BOILER INFORMATION NITROGEN OXIDE EMISSION CONTROLS

- 1. No NO_x Controls: Place a check in this box if the plant has no NO_x control equipment or processes.
- 2. **Boiler ID:** The boiler ID must match and correspond to the boiler ID and associated information reported on the EIA-860. The boiler ID is prepopulated for e-file users. If it is not prepopulated, choose the boiler ID from the drop down list. If the boiler ID is not on the list, contact EIA.
- 3. **NO_x Control In-Service (hours):** Enter the total hours the nitrogen oxide control was in service during the reporting period (to the nearest hour).
- 4. For Entire Year, enter the controlled nitrogen oxide emission rate, in pounds per million Btu of the fuel, based on data from the continuous emission monitoring system (CEMS) where possible. Where CEMS data are not available, report the controlled nitrogen oxide emission rate based on the method used to report emissions data to environmental authorities.
- 5. For **May through September Only**, enter the controlled nitrogen oxide emission rate, in pounds per million Btu of the fuel, based on data from CEMS where possible. Where CEMS data are not available, report controlled nitrogen oxide rates based on the method used to report emissions data to environmental authorities. The summer emission rate may be assumed to be equivalent to the annual emission rate where identical nitrogen oxide controls are used year round.

SCHEDULE 8. PART D. MONTHLY COOLING SYSTEM OPERATIONS

NOTE: All steam-electric plants of 100 MW nameplate capacity or greater, including combined-cycle and nuclear energy plants, must respond to this schedule. A separate page must be completed for each month.

- 1. If actual data are not available, provide an estimated value.
- 2. If the source of cooling water is a well or municipal water system, do not complete the Cooling Water Temperature sections.
- 3. **Cooling System ID or PLANT:** The cooling system ID must match and correspond to the data reported on the EIA-860. The ID is prepopulated for e-file users. If the ID is not prepopulated, choose the ID from the drop down list. If the cooling system ID is not on the list, contact EIA to have new IDs added. If the data to be reported are for the entire plant (because the data cannot be broken down by separate cooling systems), choose "PLANT" from the drop-down list.
- 4. **Cooling System Status:** Select from the equipment status codes on Table 4.



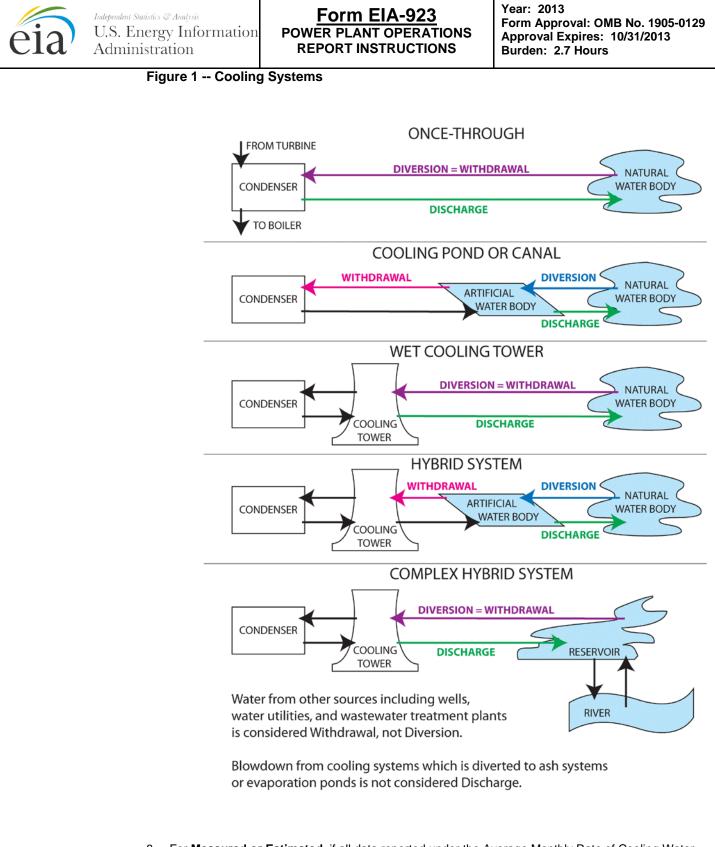
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PRIME MOVER CODES AND DESCRIPTION

Table 4

Code	System Status
OP	Operating (in commercial service or out of service less than 365 days)
OS	Out of service (365 days or longer)
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. Hours in Service: Enter the hours each cooling system was in service for the reporting period.
- 6. **Monthly Amount of Chlorine Added to Cooling Water** pertains solely to elemental chlorine. If a compound is used, determine the amount of chlorine in the compound. Report amount of chlorine to the nearest 0.001 thousand pounds.
- 7. Average Monthly Rate of Cooling Water data should be the rate of flow reported in cubic feet per second (to the nearest 0.1 ft³). *Diversion* is the water moved from a watercourse without immediate beneficial use, for purposes such as filling a cooling pond or adding water to a lake from which thermoelectric power water withdrawals can occur. *Withdrawal* is the water removed from a water body for beneficial use such as cooling water, boiler make-up water, ash sluicing, and dust suppression. *Discharge* is the water returned to a water body, not necessarily the same water body as the withdrawal. (Do not include water discharged to a recirculation pond that will be re-used at this power plant.) *Consumption* is the water that is withdrawn from a water body and not returned (discharged), because of evaporation losses and onsite consumption such as for dust control and flue gas desulfurization. The following figure is provided to clarify cooling terms and configurations.



8. For **Measured or Estimated**, if all data reported under the Average Monthly Rate of Cooling Water section have been measured, choose one of the choices for "Measured" from the drop-down list. If one or more entries have been estimated in a particular section choose one of the estimation methodologies given in the drop-down list for that section. If "Other" is chosen, provide details of the estimation method on Schedule 9. The choices that will be included in the drop-down list are the following:



- Measured using a streamflow gage or weir
- Measured using a cumulative or continuous flowmeter
- Measured using an instantaneous flowmeter and pump running time
- Estimated based on stated pump capacity and pump running time
- Estimated based on another flow, such as discharge estimated from measured withdrawals
- Consumption calculated as the difference of withdrawal and discharge flows
- Consumption estimated from withdrawal amount and a loss coefficient
- Estimated based on power generation
- Estimated based on plant design characteristics
- Permitted value, not measured
- Other (describe in footnote)
- 9. For the **Cooling Water Temperature** sections, report the Average Monthly Temperature and the Maximum Temperature for the Month in degrees Fahrenheit to the nearest whole number, measured at the withdrawal point from the natural body of water or cooling pond in the case where water is first diverted and at the discharge point into the natural body of water.
- 10. For Measured or Estimated, if all data reported under the Cooling Water Temperature section have been measured, choose one of the choices for "Measured" from the drop-down list. If one or more entries have been estimated in a particular section choose one of the estimation methodologies given in the drop-down list for that section. If "Other" is chosen, provide details of the estimation method on Schedule 9. The choices that will be included in the drop-down list are the following:
 - Measured continuously with a thermometer
 - Measured at intervals (for example, daily) with a thermometer
 - Discharge temperature calculated based on intake temperature
 - Intake temperature calculated based on discharge temperature
 - Estimated based on plant design characteristics
 - Permitted value, not measured
 - Other (describe in footnote)

SCHEDULE 8. PART E. FLUE GAS PARTICULATE COLLECTOR INFORMATION

- 1. Flue Gas Particulate Collector ID: The flue gas particulate collector ID must match and correspond to the data reported on the Form EIA-860. The ID is prepopulated for e-file users. For an ID not prepopulated, choose the ID from the drop down list. If the ID is not on the list, contact EIA.
- 2. FGP Collector Status: Select from the equipment status codes in Table 5.



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ENERGY SOURCE CODES AND HEAT CONTENT

Table 5

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 (on order or expected to go into commercial service within 5 years)
RE	Retired (no longer in service and not expected to be returned to service)
SC	Cold Standby (Reserve); deactivated (usually requires 3 – 6 months to reactivate)
TS	Operating under test conditions (not in commercial service)

- 3. Hours in Service: Enter the hours each collector was in service for the reporting period.
- 4. For **Typical Particulate Emissions Rate**, enter the particulate emission rate based on the annual operating factor (to nearest 0.01 pound per million Btu).
- 5. For Removal Efficiency of Particulate Matter at Annual Operating Factor and At 100-Percent Load or Tested Efficiency, if the collector has a combination of components (i.e., a baghouse and an electrostatic precipitator) enter both components as one unit in one column. If the particulate collector also removes sulfur dioxide, enter the particulate scrubbing process in this section and the desulfurization process on SCHEDULE 8, PART F, FLUE GAS DESULFURIZATION UNIT INFORMATION ANNUAL OPERATIONS.
- 6. For **Removal Efficiency of Particulate Matter at Annual Operating Factor**, enter removal efficiency based on the annual operating factor. Annual operating factor is defined as annual fuel consumption divided by the product of design firing rate and hours of operation per year. If actual data are unavailable, provide estimates based on equipment design performance specifications.
- 7. For **At 100-Percent Load or Tested Efficiency**, if the test was conducted, but not at 100-percent load, enter the efficiency and provide the load at which the test was conducted in a comment on SCHEDULE 9. If no test has been conducted, ENTER ZERO in the column and leave the test date blank. Test results should not be reported if there was no test date.
- 8. For **Date of Most Recent Efficiency Test**, enter test date. If an efficiency test has never been performed, enter "00-0000" and enter a comment on SCHEDULE 9.

SCHEDULE 8. PART F. FLUE GAS DESULFURIZATION UNIT INFORMATION ANNUAL OPERATIONS

- 1. Flue Gas Desulfurization Unit ID: The flue gas desulfurization unit ID must match and correspond to the data reported on the Form EIA-860. The ID is prepopulated for e-file users. For an ID not prepopulated, choose the ID from the drop down list. If the ID is not on the list, contact EIA.
- 2. Flue Gas Desulfurization Unit Status, as of January 1 following the end of the reporting year. Select from the equipment status codes listed in Table 6.



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Table 6

Code	Status
CN	Cancelled (previously reported as "planned")
со	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 (on order and expected to go into commercial service within 5 years)
RE	Retired (no longer in service and not expected to be returned to service)
SB	Standby (or inactive service); i.e. not normally used, but available for service
SC	Cold Standby (Reserve); deactivated (usually requires 3 – 6 months to reactivate
TS	Operating under test conditions (not in commercial service)

- 3. For **Hours in Service**, enter the total number of hours one or more trains (or modules) were in operation; do not report for individual trains.
- 4. **Quantity of FGD Sorbent Used**: Enter the quantity of FGD sorbent used during the reporting period (to the nearest 0.1 thousand tons).
- 5. **Electrical Energy Consumption**: Enter the Electrical Energy Consumed by this Unit during the reporting period (in megawatthours).
- 6. For Estimated Removal Efficiency for Sulfur Dioxide at Annual Operating Factor and At 100 Percent Load or Tested Efficiency, if the FGD unit also removes particulate matter, enter the desulfurization process in this section and the particulate scrubbing process on SCHEDULE 8. PART E, FLUE GAS PARTICULATE COLLECTOR INFORMATION.
- 7. For **Estimated Removal Efficiency for Sulfur Dioxide at Annual Operating Factor**, enter removal efficiency based on the annual operating factor. Annual operating factor is defined as annual fuel consumption divided by the product of design firing rate and hours of operation per year. If actual data are unavailable, provide estimates based on equipment design performance specifications.
- 8. For Estimated Removal Efficiency for Sulfur Dioxide at 100-Percent Load or Tested Efficiency, if the test was conducted, but not at 100-percent load, enter the efficiency, and provide the load at which the test was conducted in a comment on SCHEDULE 9. If no test was conducted, enter zero for the efficiency and leave the test data blank. Test results should not be given without a test date.
- 9. Report the **Operation and Maintenance Expenditures during the Year**, excluding electricity, in thousand dollars.

SCHEDULE 9. COMMENTS

This schedule provides additional space for comments. Please identify schedule, item, and identifying information (e.g., plant code, boiler ID, generator ID, prime mover) for each comment. If plant is sold, provide purchaser's name, a telephone number (if available), and date of sale.



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Table 7

Prime Mover Code	Prime Mover Description	
BT	Turbines Used in a Binary Cycle (such as used for geothermal applications)	
CA	Combined-Cycle – Steam Part	
CE	Compressed Air Energy Storage	
СР	Energy Storage, Concentrated Solar Power	
CS	Combined-Cycle Single-Shaft Combustion turbine and steam turbine share a single generator	
СТ	Combined-Cycle Combustion Turbine Part	
FC	Fuel Cell	
GT	Combustion (Gas) Turbine (including jet engine design)	
НА	Hydrokinetic, Axial Flow Turbine	
HB	Hydrokinetic, Wave Buoy	
НК	Hydrokinetic, Other	
HY	Hydraulic Turbine (including turbines associated with delivery of water by pipeline)	
IC	Internal Combustion (diesel, piston) Engine	
ОТ	Other – Specify on SCHEDULE 9.	
PS	Hydraulic Turbine – Reversible (pumped storage)	
PV	Photovoltaic	
ST	Steam Turbine (including nuclear, geothermal and solar steam, excluding combined-cycle)	
WT	Wind Turbine, Onshore	
WS	Wind Turbine, Offshore	



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			"Higher Hea Ran	-		•
	Energy Source Code	Unit Label	MMBtu Lower	MMBtu Upper	Energy Source Description	
			-	Fossil Fuels	5	ļ
	ANT	tons	22	28	Anthracite Coal	ļ
	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 (A coal product that is created when impurities and/or moisture are removed to improve heat content and reduce emissions. Includes any coal which meets the IRS definition of refined coal (Notice 2010-54 or any superseding IRS notices). Does not include coal processed by coal preparation plants.)	
	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	Jet Fuel	ļ			
Petroleum	KER	barrels	5.6	6.1	Kerosene	ļ
Products	PC	tons	24	30	Petroleum Coke	ļ
	RFO	barrels	5.8	6.8	Residual Fuel Oil (including No. 5 and No. 6 fuel oils, and bunker C fuel oil.	ļ
	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	ļ
	NG	Mcf	0.8	1.1	Natural Gas	ļ
Natural Gas and Other	OG	Mcf	0.32	3.3	Other Gas (specify in Comment Section of SCHEDULE 9)	
Gases	PG	Mcf	2.5	2.75	Gaseous Propane	ļ
	SG	Mcf	0.2	1.1	Synthetic Gas	ļ
	SGC	Mcf	0.2	0.3	Coal-Derived Synthetic Gas	
			Re	newable Fu	lels	
	AB	tons	7	18	Agricultural By-Products	
Solid	MSW	tons	9	12	Municipal Solid Waste	
Renewable Fuels	OBS	tons	8	25	Other Biomass Solids (specify in Comment Section of SCHEDULE 9)	
	WDS	tons	7	18	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids)	



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			Tab	ole 8 Contir	nued
	Energy Source	Unit	"Higher Heating Value" Range		
	Code	Label	MMBtu Lower	MMBtu Upper	Energy Source Description
			Renew	able Fuels	s (cont.)
	OBL	barrels	3.5	4	Other Biomass Liquids (specify in Comment Section of SCHEDULE 9)
Liquid	SLW	tons	10	16	Sludge Waste
Renewable	BLQ	tons	10	14	Black Liquor
(Biomass) Fuels	WDL	barrels	8	14	Wood Waste Liquids excluding Black Liquor (includes 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 (includes digester gas, methane, and other biomass gasses) (specify in Comment Section of SCHEDULE 9)
	SUN	N/A	0	0	Solar
	WND	N/A	0	0	Wind
All Other	GEO	N/A	0	0	Geothermal
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.
			А	ll Other Fu	els
	WAT	MWh	0	0	Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine
	N/A	MWh	0	0	Compressed Air
-	NUC	N/A	0	0	Nuclear Uranium, Plutonium, Thorium
	PUR	N/A	0	0	Purchased Steam
All Other Fuels	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
	OTH	N/A	0	0	Specify in Comment Section of SCHEDULE 9.



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The glossary for this form is available online at the following URL: <u>http://www.eia.gov/glossary/index.html</u>
The timely submission of Form EIA-923 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.
Public reporting burden for this collection of information is estimated to average 2.6 hours per response for monthly respondents, 3.1 hours per response for annual respondents, and 4.4 hours per response for annual respondents with boiler level data, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. The weighted average burden for the Form EIA-923 is 2.8 hours per response. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the EIA, Office of Survey Development and Statistical Integration, EI-21 Forrestal Building, 1000 Independence Avenue SW, Washington, D.C. 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.
The "Total Delivered Cost" of coal, natural gas, and petroleum received at nonutility power plants and "Commodity Cost" information for all plants in SCHEDULE 2 and "Previous Month's Ending Stocks" and "Stocks at End of Reporting Period" information reported on SCHEDULE 4 will be protected and not disclosed 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 (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. All other information reported on Form EIA-923 is considered public information and may be publicly released in company identifiable form. 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 non-statistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes. Disclosure limitation procedures are applied to the protected statistical data published from SCHEDULES 2 and 4 on Form EIA-923 to ensure that the risk of disclosure of identifiable information is very small.