POWER PLANT OPERATIONS REPORT

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

Burden: 2.8 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 data protections see the provision on sanctions and the provision concerning confidentiality of information in 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.**

	SCHEDU	LE 1. IDENTIFICATI	ION		
	:	Survey Contact			
First Name:		Last Nam	ne:		
Title:					
Telephone (include extension	n):	Fax:			
		of Contact Person for			
First Name:		Last Nam	ne:		
Telephone (include extension	n):	Fax:			
		Report For			
Company Name:					
SI (N			5		
Plant Name:			Regulated	☐ Yes	∐ No
Plant ID: Plant	County:		CHP	☐ Yes	□ No
Address:			CHP Efficiency		%
	State:		Zip Code:	L	
-			,		
		Contacts			
For questions related to E-filing:		EIASurveyHelpCenter	@eia.gov	202-586	6-9595
For questions about the data requ	ested on this form:				
Schedules 1 & 4:	Chris Cassar	christopher.cassar@e			
Schedule 2:	Rebecca Peterson	rebecca.peterson@eia	a.gov		
Schedules 3 & 5:	Ron Hankey	rhankey@eia.gov			
Schedules 6, 7, & 8:	Channele Wirman	channele.wirman@eia	a.gov		
EIA-923 Fax:	202-287-1938				
EIA-923 Mailbox:	EIA-923@eia.gov				

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1 01111 EIA 323 (2012)		Burden: 2.8					
Plant Name:							
Plant ID:	Plant ID: State: Reporting Month/Year:						
	TRACT	ST AND QUALI INFORMATIO fueled plants	N, RECEIPT	rs, and cos	STS		
☐ No Receipts (If applicable, please check	.)			a fuel tolling a please check.	agreement in place for)	this plant? (If	
Contract Information	n		Re	eceipts	Cost p	per Unit	
Fuel Supplier Name	Contract Type	Contract Expiration Date	Energy Source	Quantity Purchased (solids in ton liquids in barre gases in Mo	ns, (cents per MMBtu, to the nearest	Commodity Cost (Coal, Natural Gas) (cents per MMBtu, to the nearest 0.1)	
		ı	1	1			

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SCHEDULE 2. PAGE 2. COST AND QUALITY OF FUEL PURCHASES - PLANT LEVEL **QUALITY OF FUEL AND TRANSPORTATION** For fossil-fueled plants 50 megawatts and above

	Purchases				lity of Fue	l as Recei	ved	Fuel	Transpoi	tation
Carried For	Carried Forward from Schedule 2. Page 1.			All Fuels	Coal, Pet Coke, RFO, and WO	Coal and Pet Coke	Coal Only	Natural Gas		Pet Coke, nd Oil
Fuel Supplier Name	Contract Type	Energy Source	Quantity Purchased	Heat Content (MMBtus to nearest 0.001)	Sulfur Content (percent weight to nearest 0.01)	Ash Content (percent weight to nearest 0.1)	Mercury Content (ppm to nearest 0.001 or enter 9 if not available)	Firm or Interruptible	Predomin ant Mode (Mode used to transport fuel over the longest distance)	Secondary Mode (Mode used to transport fuel over the second- longest distance)

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SCHEDULE 2. PAGE 3. COST AND QUALITY OF FUEL PURCHASES - PLANT LEVEL **COAL MINE INFORMATION** For fossil-fueled plants 50 megawatts and above

P	Purchases Information					oal Mine	Information	
Carried Fo	orward from Sch	edule 2. Page 1						Coal Mine
Fuel Supplier Name	Contract Type	Energy Source	Quantity Purchased	Coal Mine State	Coal Mine MSHA ID Coal Mine Type		Coal Mine Name	County (for imported coal, enter IMP)

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Plant Nar	Plant Name:								
Plant ID:	Plant ID: State: Reporting Month/Year:								
	SCHEDULE 3. PART A. BOILER INFORMATION FOR STEAM-ELECTRIC ORGANIC-FUELED PLANTS — FUEL CONSUMPTION								
Report or	This schedule must be completed by plants with a total steam turbine capacity of 10 megawatts and above that burn organic fuels. Report only fuels consumed in the boilers or, for HRSGs, in duct burners. If no fuel is consumed for the HRSG at combined-cycle plants, report zero. Do not leave blank. Report consumption in combustion turbines or IC engines on SCHEDULE 3. PART B.								
For those	e plants tha	at report a	nnually, Sched	ules 3A and 5A must be	e reported fo	r each month.			
		-	HEDULE 3. PA ach Boiler ID.	RT B.					
	Did any boi (If applicable	=		poses other than electric	power gener	ation during this r	eporting period?		
			Energy Sour	Ource Quantity Type of Physical Physical Content Content Content					
Prime Mover Code	Boiler ID	Boiler Status	(See Table 8 on pages 22 through 23 in the Instructions.	a fuel has no consumption for	Units (tons, barrels, or Mcf)	(as burned, to nearest 0.001 MMBtu per ton, barrel, or Mcf)	(coal, pet coke, RFO, and WO, to nearest 0.01%)	(coal and PC only, to nearest 0.1%)	
	If you reported the category of OTH, OBS, OBG, OBL, or OG in the Energy Source column, please identify the category and specific fuel name below. For example, "The OBG gas is methane."								

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Plant Name:					
Plant ID:		Stat	e: Reporting Mo	onth/Year:	
	SCHEDULE 3. I	PART B. FUEL	. CONSUMPTION – PRIMI	MOVER LEVEL	
Report fuel consumed by p turbines, IC engines, fuel c prime movers of a single ty number. Report pumping c Complete a separate row f	ells, pumped stora pe. In other words energy in megawat	ge hydroelectric s, all natural gas thours for pump	c units and compressed air s consumed by all combust ped-storage plants and con	units. Aggregate qua ion gas turbines should pressed air units.	ntity consumed for
☐ Was steam produ (If applicable, please		ther than electr	ic power generation during	this reporting period?	
Prime Mover Code	Energy So (See Table 8 instructio	3 in the	uantity Consumed (Enter zero when a fuel has no consumption for this reporting period.)	Type of Physical Units (tons, barrels, or Mcf)	Average Heat Content (MMBtu per ton, varrel, or Mcf)
If Energy Source is OTH,	OBS, OBG, OBL,	or OG, please s	specify		

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Form EIA-923 (2	012)		REPORT			al Expires: 10/3 2.8 Hours	1/2013		
Plant Name:	Plant Name:								
Plant ID:	Plant ID: State: Reporting Month/Year:								
SCHE	SCHEDULE 4. FOSSIL FUEL STOCKS AT THE END OF THE REPORTING PERIOD AND DATA BALANCE For Coal, Oil, and Natural Gas Plants								
Coal (tons) Residual oil (Distillate-type Petroleum co Include back-up f Include start-up a Do not report stor Stocks held off-si central stora 9 of this form Enter zero if the p Enter adjustment	Report stocks for the following fuels: Coal (tons) Residual oil (No. 5 and No. 6 fuel oils) (barrels) Distillate-type oils (including diesel oil, No. 2 oil, jet fuel and kerosene) (barrels) Petroleum coke (tons) Include back-up fuels. Include start-up and flame-stabilization fuels. Do not report stocks for waste coal, natural gas, or wood waste. Do enter a comment if the natural gas balance does not equal zero. Stocks held off-site that cannot be assigned to an individual plant are to be reported as stocks held at a central storage site. Each central storage site must be reported separately. New sites should be indicated in the Comment Section, located in SCHEDULE 9 of this form. Enter zero if the plant has no stocks. Do not leave blank. Enter adjustments to stocks. An adjustment can be positive or negative. See instructions for additional information. Provide a comment to explain adjustments in the adjustments grid.								
Energy Source (See Table 8 in the Instructions.)	Type of Physical Units (tons, barrels, or Mcf)	Previous Month's Ending Stocks	Current Month's Receipts (2)	Current Month's Consumption (3)	Ending Stocks (4)	Adjustment to Stocks* (5)	Balance** (6) 4=(1+2-3+5)		
*Explain any adju	*Explain any adjustments below.								
	Adjustment (from Column 5 above) Energy Source Explanation								

**Previous Month's Stocks plus Receipts minus Consumption plus (or minus) Adjustment should equal Ending Stocks. The balance will appear in column (6). If the balance is not zero, provide an explanation below.

Balance (from Column 6 above)	Energy Source	Explanation

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Plant ID:	State:	Reporting Month/Year:	

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

This schedule must be completed ONLY for generators at steam-electric organic-fueled plants with a total steam turbine capacity of 10 megawatts and above. Report generation for all other types of prime movers (combustion turbines, IC engines, wind, or hydro-electric turbines, and compressed air units.), and steam turbine plants with less than 10 megawatts total capacity or 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.

Industrial or Commercial Sector plants may report gross generation ONLY if net generation is not measured (see instructions for definition of net generation).

Complete a separate row for each Generator ID. See Generator ID information in the instructions for Schedule 5. Part A.

Prime Mover Code	Generator ID	Generator Status	Gross Generation (MWh)	Net Generation (MWh)

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Plant Name:						
Plant ID:	State: Reporting Month/Year:					
SCHEDUL	E 5. PART B. PRIME MOVER LEVEL GEN	ERATION				
combustion turbines, pumped-storage hydrocorresponds to the fuel consumption reported in the applicable Gross Generation or Net Gexample, enter the total generation from all generation ONLY if net generation is not me	e steam portion of the operation is under 10 for pelectric turbines, and compressed air units. Seed on SCHEDULE 3. Part B. Generation cell, enter the aggregate generation combustion turbines. Industrial or Commercial combustion turbines for definition of net gover Type. (See Table 7 of the instructions.)	Generation reported on this schedule on for prime movers of a single type. For fall Sector plants may report gross				
Prime Mover Code	Gross Generation (MWh)	Net Generation (MWh)				

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

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This schedule must be completed by all nuclear plants and by all wind, solar, geothermal, hydroelectric, or other plants where the energy source is noncombustible, such as purchased steam or waste heat. No fuel consumption 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. Do not report generation at a combined-cycle plant. All combined-cycle generation is reported on SCHEDULE 5. PART A or B. Report nuclear data by generating unit.

In the applicable Gross Generation or Net Generation cell, enter the aggregate generation for prime movers of a single type. For example, enter the total generation from all combustion turbines. Industrial or Commercial Sector plants may report gross generation only if net generation is not measured (see instructions for definition of net generation).

Complete a separate row for each Prime Mover Type. (See Table 7 of the instructions.)

Prime Mover Code	Energy Source	Unit Code (nuclear)	Gross Generation (MWh)	Net Generation (MWh)

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SCHEDULE 6 collects calendar year data (r	no monthly detail).	_			
Report all generation in megawatthours (MV	Vh) rounded to a whole number.				
Source of Electricity	,	Disposition of Electricity			
(1) Gross Generation (Annual)	(4) Station Use				
(2) Other Incoming Electricity		dustrial and Commercial h CHP and non-CHP)			
	(6) Total Facility U	lse (4 + 5)			
	(7) Retail Sales to	Ultimate Customers			
	(8) Sales for Resa	le			
	(9) Other Outgoin	g Electricity			
(3) Total Sources (1 + 2)	(10) Total Disposit	tion (6 + 7 + 8 + 9)			
Total	Sources must equal Total Disposition (3	= 10)			

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Plant ID:	State:	Reporting Month/Year:							
SCHEDULE 7 must be completed by respondents what 8, Sales for Resale.	no entered a pos	sitive amount on SCHEDULE 6, Disposition of Electricity, Item							
	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.								
Annual Revenues from Sales for Resale (in thousa	and dollars):								

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SCHEDULE 8. ANNUAL ENVIRONMENTAL INFORMATION

SCHEDULE 8. PARTS A through F are filed annually by thermoelectric power plants (organic fueled, nuclear, and combined-cycle) with a total steam turbine capacity of 10 megawatts and above. Plants with a total steam turbine capacity of 10 megawatts to less than 100 MW file only Parts C, E, and F.

SCHEDULE 8. PART A. ANNUAL BYPRODUCT DISPOSITION

Enter the quantity of combustion byproducts for the year by type of disposal (to nearest 0.1 thousand tons). Report sales of steam in million Btu (MMBtu). If actual data are not available, provide an estimated value.

☐ NO BYPRODUCTS

	Disposal			Sale or Beneficial Use			Storage		Total
Byproduct	On-Site Landfill	On-Site Ponds	Disposal Off-site	Sold	Used On-site	Used Off-site	Stored On-site	Stored Off-site	
Fly ash from standard boiler/PCD units									
Fly ash from units with dry FGD									
Fly ash from FBC units									
Bottom ash from standard boiler units									
Bottom (bed) ash from FBC units									
FGD Gypsum									
Other FGD byproducts									
Ash from coal gasification (IGCC) units									
Other (specify via footnote on SCHEDULE 9)									
Steam Sales (MMBtu)									

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Plant ID:				State:	Reporting Mo	onth/Year:			
S	CHEDULE 8. F	PART B.	FINAN	CIAL INFORMATIO	ON RELATED TO (COMBUST	ION BYPR	ODUCTS	
If actual data are	not available,	provide a	an estim	ated value.					
	Operation	n and M	aintena	nce (O&M) Expend	ditures During Yea	ar (Thousa	and Dollars	s)	
Туре	(1) Fly Ash	(2) Bottom Ash		(3) Flue Gas Desulfurization	(4) Water Pollution Abatement	(5) Other Pollution Abatement		(6) Total (1 + 2 + 3 + 4 + 5)	
Collection									
Disposal									
Other									
Capital E	Expenditures	for New	Structu	res and Equipmen (Thousand		cluding La	and and In	terest Expense	
Туре	(7) Air Poll Abater	ution		(8) ater Pollution Abatement	(9) Solid/Contained Waste		Other I	(10) Other Pollution Abatement	
Amount									
			Ву	product Sales Rev (Thousand					
Туре	(11) (12) Fly Ash Bottom Ash			(13) Fly and Bottom Ash Sold Intermingled	Flue Gas Ot Desulfurization Bypr		15) ther coduct enue	(16) Total (11+12+13+14+15)	
Amount									
l .		I		ı	I	Ī.		1	

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Plant Name:				
Plant ID:		State:	Reporting Month/	Year:
SCHEDULE 8	8. PART C. I	BOILER INFORMAT	ION NITROGEN OXIDE I	EMISSION CONTROLS
Complete a separate row for ea		D as reported on For	m EIA-860, "Annual Elect	ric Generator Report."
☐ No NO _x Controls				
	NO _x Co	ntrol In-Service	NO _x Em	ission Rate (lbs/MMBtu)
Boiler ID	(hours)		Entire Year	May through September
	<u> </u>			

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Plant Name	ə:													
Plant ID: _					_	Sta	te:			Reporting	g Year:			
				meplate capa	acity or great	Reporti	ng Month:	OOLING SYSTE	clear power p	ants, must res			g System ID must ystem.	
Cooling	Monthly Amount of	Monthly Amount of Chlorine Added to Cooling Cooling Service	Amount of Chlorine Added to Cooling Water (1000 lbs to nearest					e of Cooling War to the nearest 0.			Co	ooling Water Ten (degrees Fahre		
System ID or Plant	System Status			Cooling Water (1000 lbs to nearest	System Cooling Water (1000 lbs to neares	Service (1000 nearest	Diversion	Withdrawal	Discharge	Consumption	Measured or Estimated?	Average Monthly Temperature at Intake	Maximum Temperature for the Month at Intake	Average Monthly Temperature at Discharge

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Plant ID:			State:	F	Reporting Year:						
SCHEDULE 8. PART E. FLUE GAS PARTICULATE COLLECTION INFORMATION											
☐ Does not apply. Complete a separate row for each flue gas particulate collector.											
Flue Gas Particulate Collector ID	FGP Collector Status			Hours in	Typical Particulate Emissions Rate	Removal Effic	ter (nearest 0.1% by weight)				
		Service	(to the nearest 0.01 lb/MMBtu)	At Annual Operating Factor	At 100% Load or Tested Efficiency	Date of Most Recent Efficiency Test (e.g., 12-2005)					

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Plant ID:				State:			Reporting Year:			
SCHEDULE 8. PART F. FLUE GAS DESULFURIZATION UNIT INFORMATION – ANNUAL OPERATIONS										
□ Doco not apply		ote: Flue Gas Desulfurization ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report." omplete a separate row for each Flue Gas Desulfurization Unit.								
ANNUAL OPERATIONS										
Flue Gas Desulfurization Unit ID	EGD	l Ini t	it Hours In-	Quantity of FGD Sorbent Used	Electrical Energy	Removal Efficiency of Sulfur Dioxide (nearest 0.1% by wt)				
	FGD Unit Status		Service	(to the nearest 0.1 thousand tons)	Consumption (MWh)	At Anr	At Annual Operating At 100% Load or Factor Tested Efficiency			
OPERATION AND MAINTENANCE EXPENDITURES DURING YEAR, EXCLUDING ELECTRICITY (THOUSAND DOLLARS)										
Flue Gas Desulfurization Unit ID		Feed Materials and Chemicals		Labor and Supervision	Waste Disposal		Maintenance, Materials, and All Other Costs		Total	

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Plant Name:										
Plant ID:				State: Reporting Mont	h/Year:					
SCHEDULE 9. COMMENTS										
Comment Section: Explain any unusual values, occurrences, or changes in ownership.										
Schedule	Part	Item		Comment						
Changes in Ownership (Provide name of purchaser and date sold.)										