

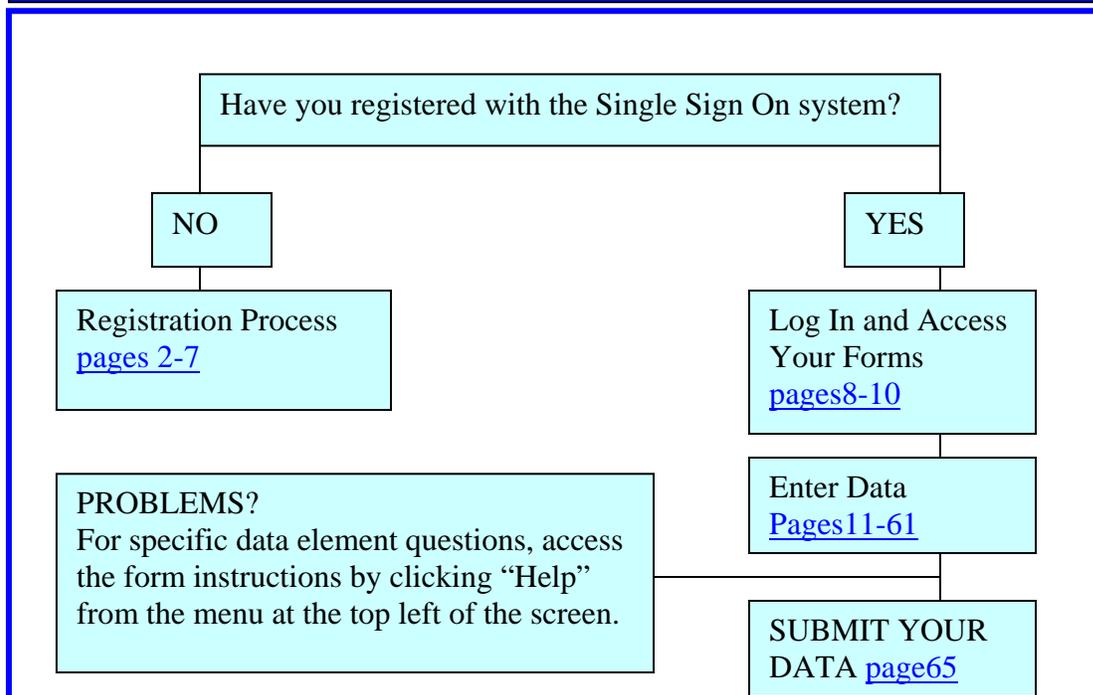
EIA-860 INTERNET DATA COLLECTION USER GUIDE

INTRODUCTION

The Energy Information Administration (EIA) instituted an online data collection system, known as the Single Sign-On system, for its electric power surveys in 2001. The goal of the online data collection system is to provide an efficient, accurate, and secure method for respondents to complete and submit data directly to the EIA. An important feature of the Single Sign-On system is the ability for respondents to access multiple survey forms using one convenient set of credentials. In addition, the online collection system informs the respondent of data discrepancies and other important information immediately on-screen, significantly reducing data discrepancy phone calls and greatly improving the accuracy and timeliness of data submissions. The online system also includes built in edit checks and provides feedback identifying the specific schedule, part, and line number of the data in question. This guide will help you register, sign-on, and enter your data into the online system.

ABOUT THIS GUIDE

The following chart will direct you through the steps covered in this guide



REGISTERING WITH SINGLE SIGN ON

EIA Single Sign On Login Screen - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://signin.eia.doe.gov/ssoserver/login>

energy information administration

Welcome to the EIA Single Sign On Login System

All Internet Data Collection applications are unavailable from Saturday at 6:00pm until Sunday at 12:00am.
All Internet Data Collection applications will be unavailable between 8:00 am and 12 Noon on Sunday, May 29.



Userid:

Password:

Logon

[Register for a Userid](#) | [Forgot your password?](#)

[Frequently Asked Questions](#) | [Security and Privacy Statement](#)

If you experience problems logging on, please call 202-566-8959 or send an email to the [User Services Center](#).

If you experience problems while in a coal or electricity survey form, please call 202-287-1333 or send an email to the [CNEAF Help Center](#).

User Notification

This is a Federal computer system and is the property of the United States Government. Users have no explicit or implicit expectation of privacy.

With the exception of individually identifiable data or information collected exclusively for statistical purposes under a pledge of confidentiality (i.e. data protected from disclosure by the Confidential Information Protection and Statistical Efficiency Act of 2002, Public Law 107-347), in accordance with applicable law any use of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to authorized site, Department of Energy, and law enforcement personnel, as well as authorized officials of other agencies both domestic and foreign. By using this system, the

Done Internet

To log-in, enter user ID and password created in registration process. If you have not registered, click here to access the registration screen.

 **EIA Single Sign-On Registration**

► **Get your Single Sign On identity** Date: 09/20/2005

Please provide some basic contact information:

* First Name:

* Last Name:

* Phone Number: () -

Phone Extension:

* Email Address:

Please choose a userid and password:

* Userid: Userid Rules:

- use a minimum of 5 characters
- use alpha-numeric characters and underscores only

* Password: Password Rules:

- use a minimum of 8 characters
- use a special character (!@#%&*) in one of the first 7 positions
- use at least one lowercase letter
- use at least one uppercase letter
- use at least one numeric character, but not in the first or last position
- do not include the userid in the password

* Retype Password:

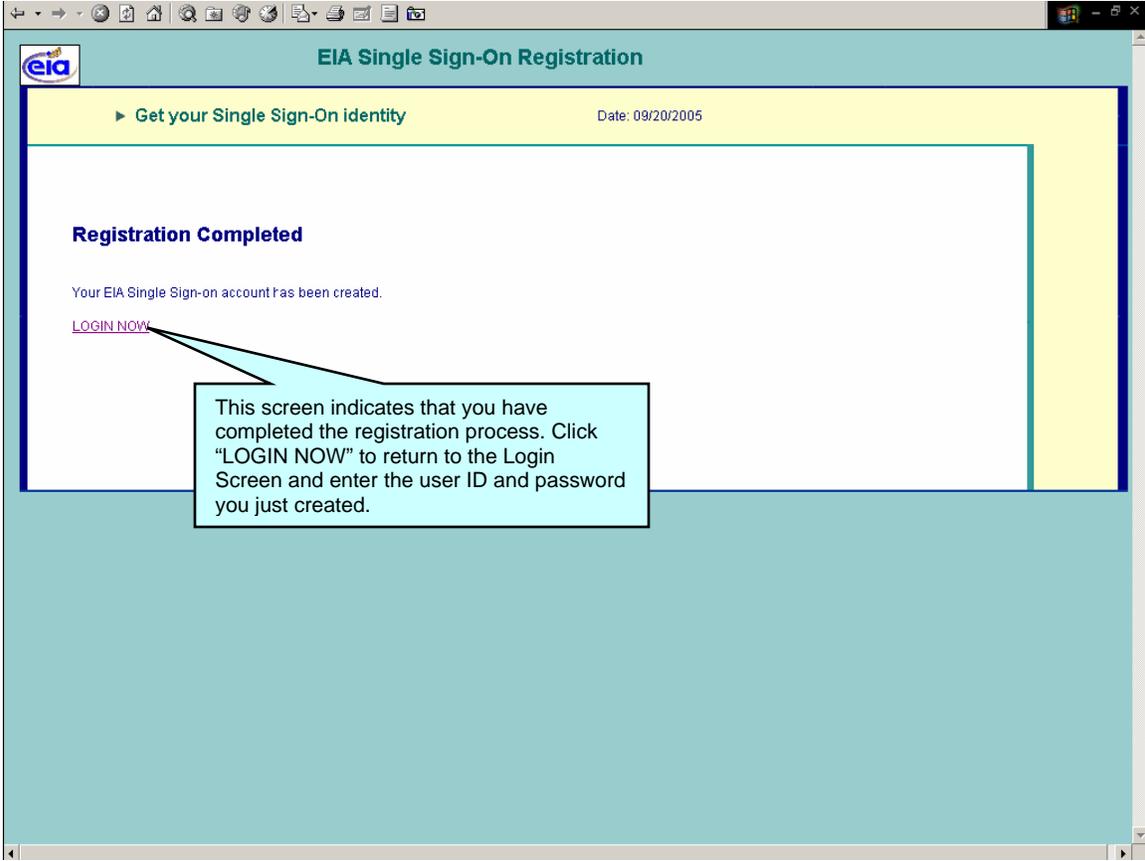
Please provide a question and its answer that will allow you to access the application if you forget your password. Choose a simple answer that you will be able to remember. Don't put punctuation or unusual spacing in the answer; in fact, a one word answer is best. Do not use the password rules in naming your answer.

* Security Question:

* Your Answer:

*** Required**

Complete the information on this screen.
Click the "Submit" button to continue.



EIA Single Sign-On Registration

► Get your Single Sign-On identity

Date: 09/20/2005

Registration Completed

Your EIA Single Sign-on account has been created.

[LOGIN NOW](#)

This screen indicates that you have completed the registration process. Click "LOGIN NOW" to return to the Login Screen and enter the user ID and password you just created.

EIA Single Sign On Login Screen - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://signin.eia.doe.gov/ssoserver/login> Go Links

energy information administration

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Password:

Logon

[Register for a Userid](#) | [Forgot your password?](#)

[Frequently Asked Questions](#) | [Security and Privacy Statement](#)

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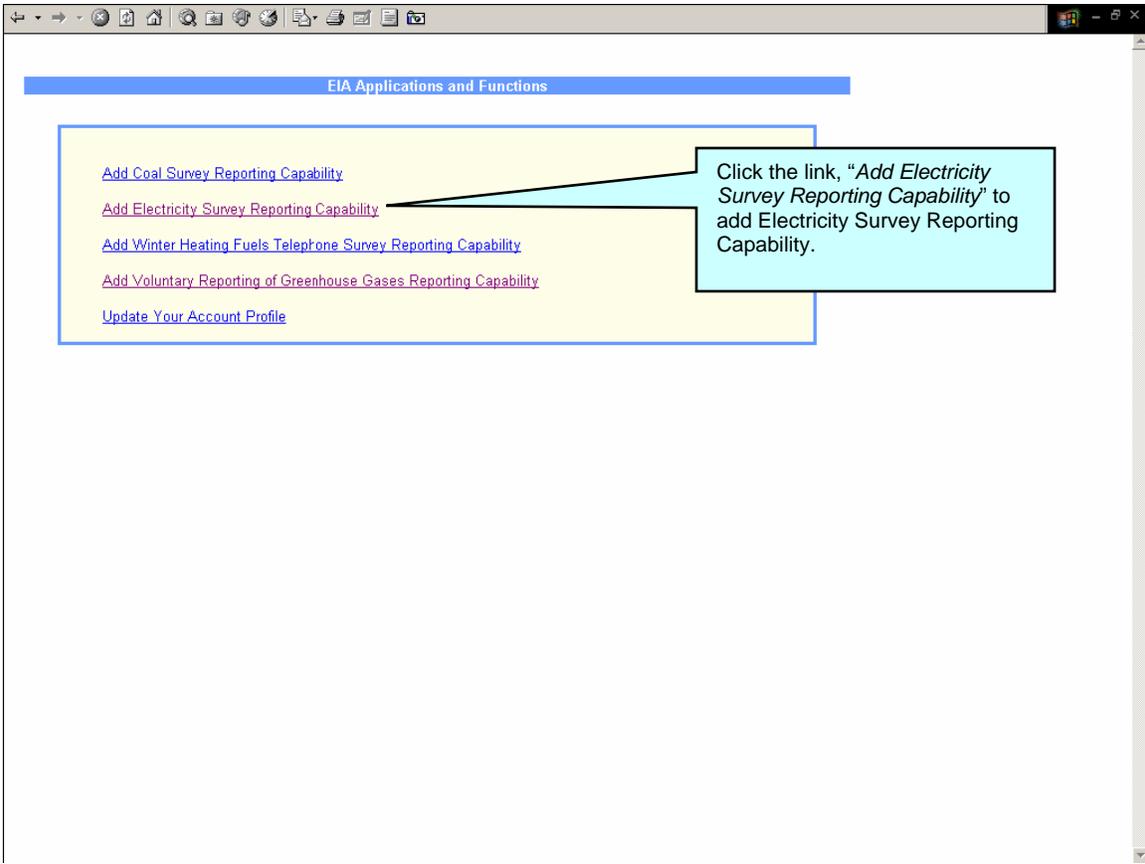
With the exception of individually identifiable data or information collected exclusively for statistical purposes under a pledge of confidentiality (i.e. data protected from disclosure by the Confidential Information Protection and Statistical Efficiency Act of 2002, Public Law 107-347), in accordance with applicable law any use of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to authorized site, Department of Energy, and law enforcement personnel, as well as authorized officials of other agencies both domestic and foreign. By using this system, the

Done Internet

Enter User ID Here

Enter Password Here

Click here if you forget your password.



EIA Electricity Survey Registration

► Add Electricity Survey Reporting Capability Date: 09/20/2005

To register to submit surveys online, please enter your Mail Id and Code in the fields below.
If you have not received a Mail Id and Code from EIA, or if you need help, [click here](#).

Enter your Mail Id:

Enter your Code:

Submit Credentials Cancel / Return to List of Applications

Click "Submit Credentials" to continue.

NOTE

The Mail ID and Code give you access to the specific surveys that you are responsible for

Enter your Mail ID (provided in e-mail from EIA).

Enter your Code (provided in email from EIA).

Click "Submit Credentials" to continue.

NOTE

The Mail ID and Code give you access to the specific surveys that you are responsible for

LOGGING IN TO THE SYSTEM

EIA Single Sign On Login Screen - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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energy information administration

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User ID:

Password:

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[Register for a Userid](#) | [Forgot your password?](#)

[Frequently Asked Questions](#) | [Security and Privacy Statement](#)

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Done Internet

Enter User ID Here

Enter Password Here

Click here if you forgot your password.

EIA Applications and Functions - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://signon.eia.doe> Links EIA I EIA II EIA III EIA IV SAIC Email SETS Comcast Email ISENet

Google Search 200 blocked ABC Check AutoLink AutoFill Options SnagIt

EIA Applications and Functions

[EIA-767 Steam-Electric Plant Operation and Design Report](#)

[EIA-826 Monthly Electric Sales and Revenue with State Distributions Report](#)

[EIA-860 Annual Electric Generator Report](#)

[Add Coal Survey Reporting Capability](#)

[Add Electricity Survey Reporting Capability](#)

[Add Winter Heating Fuels Telephone Survey Reporting Capability](#)

[Add Voluntary Reporting of Greenhouse Gases Reporting Capability](#)

[Update Your Account Profile](#)

Click the link, "EIA-860 Annual Electric Generator Report" to access the EIA-860 Main Menu.

NOTE

This list will only include surveys that you currently have access to. If you are missing a survey, contact the Help Desk at (202) 586-9595

EIA-860 INTERNET DATA COLLECTION SYSTEM

The screenshot shows a web browser window titled "Oracle Developer Forms Runtime - Web" with the URL "EIA-860 Survey Processing System". The page features the EIA logo and the text "Electricity". Below this is a "Form EIA-860 Main Menu" containing two buttons: "Survey Data Entry" and "Exit EIA-860 System". Two callout boxes point to these buttons with the following text:

- Click here to access the EIA-860 Entity Selection Screen
- Click here to exit the system

Below the buttons, there is a legal disclaimer and contact information:

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.

For questions or issues regarding access to or submission of EIA electricity surveys, please contact:
CNEAFHelpCenter@eia.doe.gov or call (202) 287-1333.

At the bottom of the page, there is a status bar showing "Record: 1/1" and a "<OSC>" button.

EIA-860 MAIN ACCESS

Oracle Developer Forms Runtime - Web

EIA-860 Survey Data Entry

Action Edit Help

U.S. Department of Energy
Energy Information Administration
Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR
REPORT

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

EIA-860 Main Access

Utility Id Year

Utility Name Tate & Lyle Ingredients Americas Inc

Mail State IL

EIA-860 Forms Exit

Double-click to query system for respondent name
Result of query will populate utility id box with the

Respondent Name Query

Plant Name Query

Facility Code Query

Select or Find EIA-860 Utility ID

Find 99999%

UTILITY ID	UTILITY NAME	MAIL STATE
99999	Other	AK

Choose an entity from the dropdown list on this screen and click "OK"

Find OK Cancel

Once entity is selected, click here to continue.

Start

Oracle Application Server ... Oracle Developer For... 2008 Revised IDC MANU...

1:21 PM

NOTE

This list will only include entities that you have access to. If a specific entity that you are responsible for is missing, contact the Help Desk at (202) 586-9595

EIA-860 MAIN ACCESS

Oracle Developer Forms Runtime - Web

EIA-860 Survey Data Entry

Action Edit Help

U.S. Department of Energy
Energy Information Administration
Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR
REPORT

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

EIA-860 Main Access

Utility Id Year

Utility Name

Mail State

Double-click to query system for respondent names, plant names and facility codes.
Result of query will populate utility id box with the appropriate value

Respondent Name Query

Plant Name Query

Facility Code Query

NOTE

Double click within these boxes to search for entities that you have access to by entity name, facility name, or facility code.

Start

Oracle Application Server ... Oracle Developer For... 2008 Revised IDC MANU...

1:22 PM

Verify all EIA provided information. If incorrect, revise the incorrect entry and provide the correct information.

State codes are two-letter U.S. Postal Service abbreviations. Provide any missing information.

If filing a paper copy of this form, typed or legible handwritten entries are acceptable. Allow the original entry to remain readable. See more specific instructions for correcting data in SCHEDULE 2, "Power Plant Data," and SCHEDULE 3. "Generator Information."

If no corrections are needed to the pre-entered data and there are no missing data, check "No Change Needed" for plant, generator or boiler information, as applicable.

Check all data for consistency with the same or related data that appear in more than one schedule of this or other forms or reports submitted to EIA. Explain any inconsistencies under **SCHEDULE 7, COMMENTS**

SCHEDULE 1. IDENTIFICATION

Oracle Developer Forms Runtime - Web

ANNUA... E... FORM... REPORT... 11/11/2008... 01/11/2010

Action Edit

Click on these tabs to move through schedules.

SUBMIT Last Update Date: Data Accepted? Submission Not Submitted

Schedule 1 | 2 | 3A | 3B | 3C | 4 | 5 | 6A | 6B | 6C | 6D and 6E | 6F | 6G | 6H | 6I | Schedule 7 | Error-log

U.S. Department of Energy
Energy Information Administration
Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR
REPORT

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

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 crime to knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statement or information to any matter within its jurisdiction.

Click here if there are any changes required to the Operator information

SCHEDULE 1. IDENTIFICATION
Survey Contact

First Name [] Last Name [] New Operator/ Change Operator
Title []
Address []
City [] State [] Zip []
EMAIL []
Telephone [] Extension [] FAX []

Supervisor of Contact Person for Survey

First Name [] Last Name []
Title []
EMAIL []
Address []
City [] State [] Zip []
Telephone [] Extension [] FAX []

Report For

Operator Name Other

Record: 1/1 ... <OSC>

Start Oracle Application Server ... Oracle Developer For... 2008 Revised IDC MANU... 1:22 PM

Information in these fields will be pre-filled. Review and make any necessary changes to pre-filled fields. Enter any changes to "Name of Legal Operator" in Schedule 7, "Footnotes"

SCHEDULE 1. IDENTIFICATION (Continued)

Oracle Developer Forms Runtime - Web
ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

Action Edit Help

Submit Last Update Date: Data Accepted?

Report For

Operator Name Other
Operator ID 99999
Reporting as of December 31 Year 2007

Operator and Preparer Information

Legal Name of Operator Other
Current Address of Principal
Business Office of Plant Operator
City State AK Zip
Preparer's Legal Name (if different from Entity's Legal Name)
Address Preparer's Office (if different from Address of Principal Business Office of Entity's)
City State Zip
Is the Operator an Electric Utility?

For questions or additional information about the EIA-860, contact the Survey Managers:

Kenneth McClevey Telephone Number: (202) 586-4258 FAX Number: (202) 287-1960 E-Mail Kenneth.McClevey@eia.doe.gov	Glenn McGrath Telephone Number: (202) 586-4325 FAX Number: (202) 287-1960 E-Mail Glenn.McGrath@eia.doe.gov
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Last Update By:

Record: 1/1 <OSC>

Start Oracle Application Server ... Oracle Developer For... 2008 Revised IDC MANU... 1:23 PM

Verify the Name.

The operator is: the electric power producer owner/joint owner of the plant or a subsidiary of the electric power producer who has a working interest in the plant and who is responsible for making the strategic decisions related to the management and physical operation of the power plant.

The operator entity may also be an electric power producer or a subsidiary of an electric power producer who operates a power plant that is wholly owned by another electric power producer.

Operator *excludes* energy services companies under contract to operate the plant for the electric power producer; in these cases, the electric power producer should be reported as the legal operator.

Mark "Yes" if so. Otherwise check "No."

NOTE

If the company no longer operated a specific power plant as of December 31, 2007 report the name of the operator as of December 31 along with related contact information (including contact person's name, telephone number and e-mail address, if known) in SCHEDULE 7, "COMMENTS." Do not complete the form for that power plant.

SCHEDULE 2. POWER PLANT DATA

U.S. Department of Energy
Energy Information Administration
Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR REPORT
UTILITY: 99999 - Other Cycle: 2007

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

SCHEDULE 2. POWER PLANT DATA
(EXISTING POWER PLANTS AND THOSE PLANNED FOR INITIAL COMMERCIAL OPERATION WITHIN 5 YEARS)

Year 2007

Find Plant #
Enter Facility Code

EIA Plant Code
Regulatory
City

Latitude (Degrees, Minutes, Seconds) Longitude

Enter Datum for Latitude and Longitude; Otherwise Enter "UNK"

NERC Region

Name Of Water Source (For Purpose of Cooling or Hydroelectric)

Steam Plant Status
 existing
 planned
 retired

Record: 1/1

For line 1, **Plant Name** and **EIA Plant Code**, verify the EIA Plant Code and Plant Name for the power plant. Each power plant must be uniquely identified. Contact EIA-860 Survey Manager and request new Plant Code for new existing or proposed plants. The type of plant does not need to be a part of the plant name, e.g., "Plant x Hydro" needs to be reported as "Plant x" only. The type of plant is recognized by the prime mover code(s) reported in SCHEDULE 3, Generator Information. There may be more than one prime mover type associated with a single plant name (single site).

For line 2, **Street Address**, enter or verify the street address of the power plant.

For line 3, **County Name** and **City Name**, enter the county and city in which the plant is (will be) located. Enter "NA" for planned facilities that have not been sited. If a mobile power plant, indicate with a note in SCHEDULE 7, COMMENTS.

For line 4, **State**, enter the two-letter U.S. Postal Service abbreviation for the State in which the plant is located. Enter "NA" for planned facilities for which the State has not been determined. If the State is "NA," the county name must be "NA."

For line 5, **Zip Code**, enter the zip code of the plant. Provide, at a minimum, the five-digit zip code; however, the nine-digit code is preferred.

SCHEDULE 2. POWER PLANT DATA (Continued)

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

Action Edit Help

SUBMIT Data Accepted? Submission Not Submitted

11 Steam Plant Type Enter steam plant type
 Organic 10 MW or Greater to Under 100 MW generator nameplate capacity
 Organic 100 MW or more generator nameplate capacity

12 Primary Purpose of the Plant (North American Industry Classification System Code)

13 Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Cogenerator status? If Yes, provide all QF docket number(s). Separate by using a comma. FERC data; this information will be pre-filled. Review and make any necessary corrections

14 Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) small Power Producer status? If Yes, provide all QF docket number(s). Separate by using a comma.

15 Does this plant have Federal Energy Regulatory Commission (FERC) Qualifying Facility (QF) Exempt Wholesale Generator status? If Yes, provide all QF docket number(s). Separate by using a comma.

16 Owner of Transmission and/or Distribution Facilities: Enter the name of the owner of the transmission or distribution facilities to which the plant is interconnected and the grid voltage at the point of interconnection. Grid Voltage kW in kilovolts

Plant Notes

Record: 1/1 <OSC>

Start Oracle Application Server ... Oracle Developer For... 2008 Revised IDC MANU... 1:25 PM

NOTE

To add a missing plant, contact the EIA Survey Manager.

SCHEDULE 3. PART A. GENERATOR INFORMATION – GENERATORS

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

Action Edit Help

SUBMIT Last Update Date: Data Accepted?

Schedule 1 | 2 | 3A | 3B | 3C | 4 | 5 | 6A | 6B | 6C | 6D and 6E | 6F | 6G | 6H | 6I | Schedule 7 | Error-log

U.S. Department of Energy
Energy Information Administration
Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR REPORT

SCHEDULE 3. GENERATOR INFORMATION (EXISTING GENERATORS AND THOSE PLANNED FOR INITIAL COMMERCIAL OPERATION WITHIN FIVE YEARS)

SCHEDULE 3. PART A. GENERATOR INFORMATION - GENERATORS (Complete One Column for Each Generator, by Plant)

Operator ID 99999 Operator Name Other

Reporting as of December 31 Year 2007

LINE

1 & 2	Plant Name / EIA Plant Code	3	4	5	6	7
Generator ID						
Associated Boiler identification for organic-fueled steam generators, including heat recovery generators with duct-firing (for plants with a total generator nameplate capacity of 10MW or greater)						
Prime Mover						
Unit Code (Required for combined-cycle generators)						
Ownership						

Add Generator
Next Facility
Previous Facility

Verify or complete for each existing or planned generator. Complete one column for each generator (up to three generators can be reported on one page) for all generators that are: (1) in commercial operation (whether active or inactive), or (2) expected to be in commercial operation within 5 years and are either planned, under construction, or in testing stage. **Do not report auxiliary generators.**

Organic-fueled steam generators, including heat recovery steam generators, enter the identification (ID) code for each boiler that provides steam to the generator. The ID should match those provided in SCHEDULE 6. The applicable parts of SCHEDULE 6 must be completed for each boiler. Organic-fueled steam-electric generators include fossil-fueled and combustible renewable-fueled generators.

Identify the **ownership code** for each generator using: **"S"** for single ownership by respondent, **"J"** for jointly owned with another entity or **"W"** for wholly owned by an entity other than respondent.

Unit Code Identify all generators that are operated with other generators as a single unit. Generators operating as a single unit should have the same unit (multi-generator code) code or four-character identifier. Identify combined cycle generators that operate as a unit with a unique four-character identifier. All generators that operate as a unit in combined cycle must have the same unique identifier. *If generators do not operate as a single unit, this space should be left blank.*

Enter the appropriate prime mover code here. For combined cycle units, a prime mover code must be entered for each generator. (Consult the EIA 860 Instructions for Prime Mover Codes and Descriptions – pg. 5).

SCHEDULE 3. PART A. GENERATOR INFORMATION – GENERATORS (Continued)

For each generator, check “electric utility” or “non-utility”. (See EIA Glossary for definition of electric utility generator.)

Utility: 99999 - Other Cycle: 2007

Data Accepted? Submission Not Submitted

8 Is this generator an electric utility or non utility generator? Electric Utility Non-utility Electric Utility Non-utility Electric Utility Non-utility

9 Date of Sale if Sold (MM-YYYY)

10 Can This Generator Deliver Power to the Transmission Grid?

11 For Combined-cycle Steam Turbines, (prime mover = CA, CS, or CC) does the unit have duct-burners?

Indicate if the generator can or cannot deliver power to the transmission grid.

If the prime mover is “CA,” (combined-cycle steam), “CS” or “CC” check “Yes” if the unit has duct-burners for supplementary firing of the turbine exhaust gas. Otherwise, check “No.”

If “Yes” SCHEDULE 6 must be completed, as applicable.

Record: 1/1 =OSC>

Start | [Icons] | 11:26 AM

Inbox - Micro... | Oracle Applic... | Oracle Dev... | C:\Document... | G:\860 2008 | 2008 Revise... | Document2 - ...

NOTE

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

SCHEDULE 3. PART B. GENERATOR INFORMATION – EXISTING GENERATORS

Report the highest value on the nameplate in megawatts rounded to the nearest tenth. If the nameplate capacity is expressed in kilovolt amperes (kVA), convert to kilowatts by multiplying the corresponding power factor by the kVA, divide by 1,000 to express in megawatts. If generator nameplate capacity is exceeded by net summer capacity, provide the reason(s) in SCHEDULE 7.

Enter the generator's (unit's) summer and winter net capacities for the primary energy sources. (Summer includes June, July, and August. Winter includes January, February, and December.) Report in megawatts, rounded to the nearest tenth.

For generators that are out of service for an extended period or on standby or have no generation during the respective seasons, report the estimated capacities based on historical performance. For generators that are tested as a unit, a single aggregate net summer capacity and a single aggregate net winter capacity may be reported. For hydroelectric units, report the instantaneous capacity at maximum water flow.

Based on the generator power capability curve for the generator, enter the lagging reactive power output and the leading reactive power output that corresponds to the net summer and winter capacity (line 2), adjusted for any impacts of exciter limiters.

Double-click here for a drop down listing of status codes. Consult the EIA-860 Instructions for additional information – pg. 7.

!!!! IMPORTANT NOTE!!!!

Report in whole numbers (i.e., no decimal points), except where explicitly instructed to report otherwise. Indicate negative amounts by using a minus sign before the number. **Report date information** as a two-digit month and four-digit year, e.g., "11 - 1980."

"Net Capacity", DO NOT introduce factors such as availability of energy sources and constraints on transmission when determining summer and winter capacity. For generators that are out of service for an extended period, on standby, have no generation or no test results for the respective peak periods of the data year, report the estimated capacities based on historical performance as follows: for net summer capacity and net winter capacity of generators that fall into either of the prior mentioned categories, report the capacity of the generator that is generally achievable during the period of June through September and December through March, respectively, based on historical performance or report the best estimate of the capacity that could be achieved if the generator were operated during the respective summer and winter periods.

Units undergoing maintenance or repair of less than 12 months duration that are expected to be returned to service upon completion of maintenance or repair should be given an operating status; (see the EIA-860 Instructions for further details).

Reactive power establishes and sustains the electric and magnetic fields of alternating-current equipment. Reactive power is equal to the vector difference between the apparent power and the real power. (See the EIA-860 Instructions for further guidelines – pg. 7.)

SCHEDULE 3. PART B - GENERATOR INFORMATION – EXISTING GENERATORS (Continued)

Report date information as a two-digit month and four-digit year, e.g., "11 – 1980"

Indicate "Yes" or "No". If "Yes", check bottoming cycle or topping cycle, as applicable. For definitions, consult the EIA glossary.

Report the **Start-up and flame stabilization fuels** used by the combustion unit(s) associated with this generator.

Enter the energy source code for the fuel used in the largest quantity (Btus) during the reporting year. For generators that are out of service for an extended period of time or on standby, report the energy sources based on the generator's latest operating experience. Select appropriate energy source codes from Table 1 in the EIA 860 instructions (pg. 31). For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat (reject heat).

If the predominant energy source for powering the generator is coal or petroleum coke, check all types of technology and steam conditions that apply.

For line 11, **Second Most Predominant Energy Source**, enter the energy source code for the energy source used in the second largest quantity (Btus) during the reporting year to power the generator. DO NOT include a fuel used only for start-up or flame stabilization. Select appropriate energy source codes from Table 1 in the EIA 860 instructions – pg. 31. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat (reject heat).

For line 12, **Other Energy Sources**, enter the codes for other energy sources: first, list the energy sources actually used in order of predominance (based on quantity of Btus), then list the energy sources that the generator was capable of using but was not used to generate electricity during the last 12 months. For generators that are out of service for an extended period of time or on standby, report the energy sources based on the generator's latest operating experience. Select appropriate energy source codes from Table 1 in the EIA 860 instructions – pg. 31. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat (reject heat).

SCHEDULE 3, PART B – GENERATOR INFORMATION – EXISTING GENERATORS (Continued)

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

Action Edit Help

SUBMIT Last Update Date: Data Accepted?

13 Is this generator part of a Solid Fuel Gasification system?

14 If Energy Source is Wind, Enter the Number of Turbines

15 Tested Heat Rate (Btu/Kilowatthour)

16 Fuel Used for Heat Rate Test (enter fuel code or M for multiple fuels)

PROPOSED CHANGES TO EXISTING GENERATORS (WITHIN THE NEXT 5 YEARS)

Plant Name / EIA Plant Code

Generator ID

17a In the next 5 years, are there any planned modifications to this generator, including retirement?

17b Planned uprates:

1. Incremental net Summer Capacity (MW)
2. Incremental net Winter Capacity (MW)
3. Planned Effective Date MM-YYYY

17c Planned derates:

1. Incremental net Summer Capacity (MW)
2. Incremental net Winter Capacity (MW)
3. Planned Effective Date MM-YYYY

17d Planned Repowering: 1. New Prime Mover

Nameplate Capacity in Megawatthours

Record: 1/1 <OSC>

Start

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4:10 PM

Enter the tested heat rate under full load conditions for all generators that derive their energy from *combustion* or *fission* of fuel. Report the heat rate as the fuel consumed in Btus necessary to generate one net kilowatthour of electric energy. Report the tested heat rate under full load, not the actual heat rate, which is the quotient of the total Btu(s), consumed and total net generation. If generators are tested as a unit (not tested individually), report the same test result for each generator. For generators that are out of service for an extended period or on standby, report the heat rate based on the unit's latest test. If the generator is associated with a combined heat and power (CHP) system and no tested heat rate data are available, report either the manufacturer's specification for heat rate or an estimated heat rate. **DO NOT** report a heat rate that includes the fuel used for the production of useful thermal output. For Internal Combustion units, a manufacturer's specification or estimated heat rate should be reported, if no tested heat rate is available. If the reported value is not a tested heat rate, explain in SCHEDULE 7, COMMENTS

Enter the fuel code or "M" for multiple fuels. Select appropriate energy source codes from Table 1 in the EIA 860 instructions – pg. 31. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat (reject heat).

Proposed Changes to Existing Generators (within the next 5 years)

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

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13 Is this generator part of a Solid Fuel Gasification system?

14 If Energy Source is Wind, Enter the Number of Turbines

15 Tested Heat Rate (Btu/Kilowatthour)

16 Fuel Used for Heat Rate Test (enter fuel code or M for multiple fuels)

PROPOSED CHANGES TO EXISTING GENERATORS WITHIN THE NEXT 5 YEARS

Plant Name / EIA Plant Code

Generator ID

17a In the next 5 years, are there any planned modifications to this generator, including retirement?

17b Planned uprates:

1. Incremental net Summer Capacity (MW)
2. Incremental net Winter Capacity (MW)
3. Planned Effective Date MM-YYYY

17c Planned derates:

1. Incremental net Summer Capacity (MW)
2. Incremental net Winter Capacity (MW)
3. Planned Effective Date MM-YYYY

17d Planned Repowering:

1. New Prime Mover

Nameplate Capacity in Megawatthours

Record: 1/1 ... =OSC>

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Indicate "Y" or "N" with regard to any planned capacity up-rates/de-rates, re-powering, other modifications, or generator retirements scheduled for the next 5 years.

Enter the increase or decrease in capacity expected to be realized from the modification to the equipment. Enter the planned effective date (MM-YYYY) that the generator is scheduled to enter operation after the modification.

NOTE

If a re-powering of the generator is planned, enter the new prime mover and new energy source, as well as the planned effective date (MM-YYYY) that the generator is scheduled to enter operation after the re-powering is complete.

FUEL SWITCHING and CO-FIRING CAPABILITIES (Continued)

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FUEL SWITCHING AND CO-FIRING CAPABILITY

Plant Name / EIA Plant Code: _____

Generator ID: _____

18 **Ability to use multiple fuels**
Does the combustion system that powers this generator have 1) the regulatory permits, and 2), the equipment (including fuel storage facilities), in **working order**, necessary to either co-fire fuels or to fuel switch?
If No, skip to SCHEDULE 3 Part C.

19 **Ability to Co-Fire**
Can the unit co-fire fuels?
(Note: co-firing excludes the limited use of an alternative fuel for startup or flame stabilization.)
if No Skip to line 23

20 **Fuel Options for Co-Firing**
Enter the codes for up to six fuels that can be cofired:
a b c a b c
d e

21 **Ability to Co-Fire Oil and Natural Gas**
Can the unit co-fire fuel oil with natural gas?

22 **Ability to Co-Fire Oil**
a. Can the unit run on 100% oil?
If Yes, skip to Line 23.
If No, what is the:
Maximum oil heat input (% of MMBtu) when co-firing with natural gas?

Nameplate Capacity in Megawatt-hours: _____

Indicate if the combustion system that powers each generator has both the regulatory permits necessary to either co-fire fuels or fuel switch, **and** the equipment, including fuel storage facilities, *in working order*, necessary to either co-fire fuels or fuel switch.

Indicate whether or not the combustion system that powers the generator has, *in working order*, the equipment necessary to co-fire fuels and the regulatory permits to co-fire fuels.

Indicate up to six fuels that can be co-fired. Select appropriate energy source codes from Table 1 in the EIA-860 Instructions – pg. 31.

Indicate if the combustion system that powers the generator can co-fire fuel oil with natural gas. If it cannot, skip to line 23.

Indicate whether or not the combustion system that powers the generator can run on 100 percent oil. If **yes**, skip to line 23. If **no**, indicate the maximum percentage of the heat input to the combustion system (percent of MMBtu) that can be supplied by oil when co-firing with natural gas. Also, provide the maximum output (summer net MW) that the unit can achieve, taking into account all applicable technical limits, when making the maximum use of oil and co-firing natural gas.

NOTE

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

Fuel options listed for co-firing must also be included under either "Predominant Energy Source" (line 9), "Second Most Predominant Energy Source" (line 11), or "Other Energy Sources (line 12).

FUEL SWITCHING and CO-FIRING CAPABILITIES (Continued)

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Submission: Not Submitted

23 **Ability to Fuel Switch**
 Can the unit fuel switch?

24 **Oil - Natural Gas Fuel Switching**
 a. Can the unit switch between oil and natural gas?
 If No, skip to line 26.
 If Yes:
 Can the unit switch fuels while operating (i.e., without shutting down the unit)?

Net summer MW achievable when running on natural gas:
 Net summer MW achievable when running on fuel oil:
 Time Required to Switch this unit from using 100 percent natural gas to using 100 percent oil (check one box):
 0 to 6 hours
 over 6 to 24 hours
 over 24 to 72 hours
 over 72 hours
 Unknown or uncertain

25 **Limits on Oil-Fired Operation**
 A. Are there factors that limit your ability to switch from Natural Gas to oil?
If No, skip to line 26.

Nameplate Capacity in Megawatthours

Indicate whether or not the combustion system has, *in working order*, the equipment necessary to fuel switch and the regulatory permits to fuel switch.

Indicate whether or not the combustion system that powers the generator has, *in working order*, the equipment necessary to switch between oil and natural gas and the regulatory permits to switch between oil and natural gas in effect. **If yes** answer the rest of the questions; **if no**, go to line 26.

Enter the maximum output (summer net MW) that the unit can achieve, taking into account all applicable legal, regulatory, and technical limits, when running on natural gas.

Enter the maximum output (summer net MW) that the unit can achieve, taking into account all applicable legal, regulatory, and technical limits, when running on oil.

Indicate whether or not there are factors that limit the operation of the generator (e.g., limits on maximum output, limits on annual operating hours), when running on 100 percent oil. Check all factors that limit the ability of this generator to switch from natural gas to oil.

Enter how long it takes to switch the generator from using 100 percent natural gas to 100 percent oil.

FUEL SWITCHING and Co-Firing Capabilities (Continued)

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

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Net summer MW achievable when running on fuel oil: _____

Time Required to Switch this unit from using 100 percent natural gas to using 100 percent oil (check one box):

- 0 to 6 hours
- over 6 to 24 hours
- over 24 to 72 hours
- over 72 hours
- Unknown or uncertain

25 Limits on Oil-Fired Operation

A. Are there factors that limit your ability to switch from Natural Gas to oil?
If No, skip to line 26.
If Yes:

B. Check factors that apply.

- Limited on site fuel storage
- Limited on site storage
- Air Permit limits
- Air Permit limits
- Other (explain in schedule 7)
- Other (explain in schedule 7)

26 Fuel Switching Options

Enter the codes for up to six fuels that can be used as a sole source of fuel for this unit.

a	b	c	a	b	c
d	e				

Plant Name / EIA Plant Code _____

Generator ID _____

Nameplate Capacity in Megawatthours _____

Record: 1/1 <OSC>

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Enter how long it takes to switch the generator from using 100 percent natural gas to 100 percent oil.

Indicate whether or not there are factors that limit the operation of the generator (e.g., limits on maximum output, limits on annual operating hours), when running on 100 percent oil. Check all factors that limit the ability of this generator to switch from natural gas to oil.

Double-click here to see list of fuel options listed for fuel switching; enter the codes for up to six fuels, including (if applicable) oil and natural gas, which can be used as a sole source of fuel to power the generator. Select appropriate energy source codes from Table 1 in the EIA-860 instructions – pg. 31.

SCHEDULE 3. PART C. GENERATOR INFORMATION – PROPOSED GENERATORS

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Schedule 1 | 2 | 3A | 3B | 3C | 4 | 5 | 6A | 6B | 6C | 6D and 6E | 6F | 6G | 6H | 6I | Schedule 7 | Error-log

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ANNUAL ELECTRIC GENERATOR REPORT

SCHEDULE 3. PART C. GENERATOR INFORMATION

COMPLETE ONE COLUMN FOR EACH GENERATOR

Operator ID: 99999 Operator Name: Other

Reporting as of December 31 Reporting Year: 2007

Plant Name / EIA Plant Code:

Line	Generator ID				
1	Generator Nameplate Capacity (megawatts)				
2	Net Capacity (megawatts)	Summer			
		Winter			
3a	Reactive Power Output (MVAR) Corresponding to Net Summer Capacity (For generators with nameplate capacity 10 MW or greater)	Lagging			
		Leading			
3b	Reactive Power Output (MVAR) Corresponding to Net Winter Capacity (for generators with nameplate capacity 10 MW or greater)	Lagging			
		Leading			
4	Status Code				
5	Planned Original Effective Date (MM-YYYY)				
6	Planned Current Effective Date (MM-YYYY)				

Nameplate Capacity in Megawatthours

Record: 1/1

Enter the highest value on the nameplate in megawatts *rounded to the nearest tenth*. If the nameplate capacity is expressed in kilovolt amperes (kVA), convert to kilowatts by multiplying the corresponding power factor by the kVA, divide by 1,000 to express in megawatts to the nearest tenth. If the generator nameplate is not known at this time, estimate the nameplate rating for the generator and note this as an estimate in SCHEDULE 7. COMMENTS

Enter the net summer and net winter capacities in megawatts *rounded to the nearest tenth* that are expected when the generator goes into commercial operation.

Reactive Power Output (MVAR) Corresponding to Net Summer Capacity and Net Winter Capacity for generators with nameplate capacity 10 MW or greater, using manufacturer provided design data, enter the lagging reactive power output and the leading reactive power output that correspond to the net summer capacity (line 2). A MVAR is a Mega Voltampere Reactive.

Enter the month and year of the original effective date that: 1) the generator is scheduled to start operation after construction is completed. (Please note that this date does not change once it has been reported the first time.)

Double-click here for drop down list of status codes and descriptions; select appropriate status code and click "OK"
 For status code "OT", please describe in SCHEDULE 7, COMMENTS.

SCHEDULE 3. PART C. GENERATOR INFORMATION – PROPOSED GENERATORS (Continued)

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ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

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6 Planned Current Effective Date (MM-YYYY)

7 Will this generator be associated with a Combined Heat and Power system (fuel input is used to produce both electricity and useful thermal output)? Y N

8 Will this generator be part of a Solid Fuel Gasification system? Y N

9 Is this generator part of a site that was previously reported as indefinitely postponed or cancelled? Y N

10 Expected Predominant Energy Source

11 If coal-fired or petroleum coke fired, check all combustion technologies that apply to the associated boiler(s) and steam conditions

PLANNED ENERGY SOURCE

Pulverized Coal Pulverized Coal
 Fluidized Bed Fluidized Bed Fluidized Bed
 Sub-critical Sub-critical Sub-critical
 Super-critical Super-critical Super-critical
 Ultra Super-critical Ultra Super-critical Ultra Super-critical
 Carbon-capture Carbon-capture Carbon-capture

12 Expected Second Most Predominant Energy Source

13 **Other Energy Sources** Enter up to four codes in order of expected quantity used (measured in Btus).
 a) b) a) b) a) b)
 c) d) c) d) c) d)

Nameplate Capacity in Megawatthours

Record: 1/1 <OSC>

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Enter the month and year of the current effective date that the generator is scheduled to start operation.

Indicate "Y" or "N" as appropriate.

Double-click here and select appropriate energy source codes and descriptions from the drop down list. Enter the energy source code for the energy source expected to be used in the largest quantity (Btus) when the generator starts commercial operation.

If the expected predominant energy source for powering the generator is **coal or petroleum coke**, check all the types of technology and steam conditions that apply.

Double-click here to select from a drop down list and enter the energy source code for the energy sources expected to be used in the second largest quantity (Btus) when the generator starts commercial operation. **DO NOT include fuels expected to be used only for start-up or flame stabilization.**

SCHEDULE 3. PART C. GENERATOR INFORMATION – PROPOSED GENERATORS (Continued)

Oracle Developer Forms Runtime - Web
ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

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13 **Other Energy Sources** Enter up to four codes in order of expected quantity used (measured in Btus).
a. b.
c. d.

14 If Energy Source is Wind, Enter the Number of Turbines

COMBUSTIBLE FUEL CAPABILITY

15 **Ability to use multiple fuels**
Will the combustion system that powers this generator have 1) the regulatory permits, and 2), the equipment (including fuel storage facilities), in working order, necessary to either co-fire fuels or to fuel switch?

If No or Undetermined, skip to line 20.

16 **Ability to Co-Fire**
Will the unit co-fire fuels?
(Note: co-firing excludes the limited use of an alternative fuel for startup or flame stabilization.)

If No, skip to line 20.

17 **Fuel Options for Co-Firing**
Enter the codes for up to six fuels that can be co-fired:

18 **Ability to Co-Fire Oil and Natural Gas**
Will the unit be able to co-fire fuel oil with natural gas?

If No, skip to line 20.

19 **Ability to Co-Fire Oil**
a. Will the unit be able to run on 100% oil?

If Yes, skip to Line 20.
If No, what is the:

Indicate if the combustion system that powers the generator will be able to co-fire fuel oil with natural gas. If it cannot, skip to line 20.

Double-click here and select from drop down list, codes for other appropriate energy sources that will be used at the plant to power the generator. Enter up to four codes in order of their expected predominance of use, where predominance is based on quantity of Btu(s) to be consumed.

Indicate if the combustion system that will power each generator will have both the regulatory permits necessary to either co-fire fuels or fuel switch, and the equipment, including fuel storage facilities necessary to either co-fire fuels or fuel-switch. If the answer is "No" or "Undetermined", then proceed to SCHEDULE 4.

Indicate whether or not the combustion system that will power the generator will have the equipment necessary to co-fire fuels and the regulatory permits to co-fire fuels. If "no", skip to line 20.

Double-click and select from drop down list up to six fuels that the generator will be designed to co-fire. Select appropriate energy source codes from Table 1 in the EIA 860 instructions – pg. 31. Note: fuel options listed for co-firing must also be included under either "Predominant Energy Source" (line 9a), "Second Most Predominant Energy Source" (line 11), or "Other Energy Sources (line 13).

NOTE

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

SCHEDULE 3. PART C. GENERATOR INFORMATION – PROPOSED GENERATORS (Continued)

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

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19 **Ability to Co-Fire Oil**
 a. Will the unit be able to run on 100% oil? If No, skip to line 20.

If Yes, skip to Line 20.
 If No, what is the:
 Maximum oil heat input (% of MMBtus) when co-firing with natural gas?

Maximum output (net summer MW) achievable, when making the maximum use of oil and co-firing natural gas?

20 **Ability to Fuel Switch**
 Will the unit be able to fuel switch? If No, skip to Sch. 4.

21 **Oil - Natural Gas Fuel Switching**
 a. Will the unit be able to switch between oil and natural gas?

If No, skip to line 23. If Yes:
 Will the unit be able to switch fuels while operating (i.e., without shutting down the unit)?

Expected Net summer MW achievable when running on natural gas:

Expected Net summer MW achievable when running on fuel oil:

Expected Time Required to Switch this unit from using 100 percent natural gas to using 100 percent oil (check one box):

0 to 6 Hours over 6 to 24 hours over 24 to 72 hours over 72 hours

Nameplate Capacity in Megawatthours

Record: 1/1 <OSC>

Indicate whether or not the combustion system that will power the generator can run on 100 percent oil. If "yes", skip to line 20. If "no", indicate the maximum percentage of the heat input to the combustion system (percent of MMBtu) that will be able to be supplied by oil when co-firing with natural gas. Also provide the **maximum output** (summer net MW) that the unit is expected to achieve, taking into account all applicable legal, regulatory, and technical limits, when making the maximum use of oil and co-firing natural gas.

Indicate whether or not the combustion system that will power the generator will have the equipment necessary to fuel switch and have the regulatory permits to fuel switch. If no, then skip to SCHEDULE 4.

Indicate whether or not the combustion system that will power the generator will have the equipment necessary to switch between oil and natural gas and the regulatory permits in place to switch between oil and natural gas. If "no", skip to line 23. If "yes", will the unit be able to switch fuels while operating (i.e., without shutting down the unit)?

Enter how long it takes to switch the generator from using 100 percent natural gas to 100 percent oil.

Enter the maximum output (summer net MW) that the unit can achieve, taking into account all applicable legal, regulatory, and technical limits, when running on natural gas. Enter the maximum output (summer net MW) that the unit can achieve, taking into account all applicable legal, regulatory, and technical limits, when running on oil.

SCHEDULE 3. PART C. GENERATOR INFORMATION – PROPOSED GENERATORS (Continued)

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Limits on Oil-Fired Operation

22 A. Are there factors that will limit your ability to switch from Natural Gas to oil?
 If No, skip to line 23. If Yes:
 B. Check factors that apply.

Limited on site fuel storage
 Air Permit limits
 Other (explain in schedule7) Other (explain in schedule7) Other (explain in schedule7)

23 Fuel Switching Options
 Enter the codes for up to six fuels that can be used as a sole source of fuel for this unit.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Nameplate Capacity in Megawatthours
 Record: 1/1 <OSC>

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Indicate whether or not there will be factors that will limit the operation of the generator (e.g., limits on maximum output, limits on annual operating hours), when running on 100 percent oil. Check all factors that will limit the ability of this generator to switch from natural gas to oil.

Double-click here to select from drop down list and enter appropriate codes for up to six fuels, including (if applicable) oil and natural gas, that can be used as a sole source of fuel to power each generator.

NOTE

Fuel options listed for fuel switching must also be included under either “Predominant Energy Source” (line 10), “Second Most Predominant Energy Source” (line 12), or “Other Energy Sources (line 13).

SCHEDULE 4

Oracle Developer Forms Runtime - Web
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ANNUAL ELECTRIC GENERATOR REPORT

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

SCHEDULE 4. OWNERSHIP OF GENERATOR OWNED JOINTLY OR BY OTHERS

Operator ID 99999 Operator Name Other

Reporting as of December 31 Year 2007

PLANT NAME (a)
EIA PLANT CODE (b)
OPERATOR'S GENERATOR IDENTIFICATION (c)

IF JOINTLY OWNED - OWNER NAME AND CONTACT INFORMATION (d)

Owner/Joint Owner 1: Name List Owner Names % OWNED (e):
Street Address EIA CODE:
City, State, Zipcode

Joint Owner 2: Name List Owner Names % OWNED (e):
Street Address EIA CODE:
City, State, Zipcode

Joint Owner 3: Name List Owner Names % OWNED (e):
Street Address EIA CODE:
City, State, Zipcode

Joint Owner 4: Name List Owner Names % OWNED (e):
Street Address EIA CODE:

Use "List Owner Names" button to get a list of acceptable Owners.

Record: 1/1 ... List of Valu... <OSC>

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If changes or additions are required on this screen, click this box for a dropdown list of available entity names.

Enter percentage of ownership.

NOTE

Complete a separate SCHEDULE 4 for each existing and planned generator operated by the respondent that is, or will be, jointly owned; and each generator that the respondent operates but is 100 percent owned by another entity. Only the current or planned operator of jointly-owned generators should complete this schedule. The total percentage of ownership must equal 100 percent.

If owner name does not exist in the drop down list, provide owner legal name, mailing address and, contact information in schedule 7 FOOTNOTES;

Enter the **Owner/Joint Owner Name and Address**, in order of percentage of ownership, of each generator. Enter the **EIA Code** for the owner, if known, otherwise leave blank. Enter the **Percent Owned** to two decimal places, i.e., 12.5 percent as "12.50." If a generator is 100 percent owned by an entity other than the operator, then enter the percentage ownership as "100.00."

Include any notes or comments in SCHEDULE 7, COMMENTS.

Data on this screen should be pre-printed.

SCHEDULE 5. NEW GENERATOR INTERCONNECTION INFORMATION

Oracle Developer Forms Runtime - Web
ANNUAL ELECTRIC GENERATOR REPORT Utility: 195 - Alabama Power Co Cycle: 2007

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Schedule 1 2 3A 3B 3C 4 5 6A 6B 6C 6D and 6E 6F 6G 6H 6I Schedule 7 Error-log

U.S. Department of Energy
Energy Information Administration
Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR REPORT

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

SCHEDULE 5. NEW GENERATOR INTERCONNECTION INFORMATION
(Complete for each generator entering service during the data year.)

Operator ID 195 Operator Name Alabama Power Co

Reporting as of December 31 Year 2007

Line	Plant Name / Code	Bankhead Dam	2	1
1	Plant Name / Code	Bankhead Dam		
2	Operator Generator ID			
3	Date Of Actual Generator Interconnection (MM-YYYY)			
4	Date Of The Initial Interconnection Request (MM-YYYY)			
5	Interconnection Site Location (Nearest City or Town, State)	City		
		State		
6	Grid Voltage At The Point Of Interconnection (kV)			
7	Owner Of The Transmission Or Distribution Facilities To Which Generator is Interconnected			
8	Total Cost Incurred For The Direct, Physical Interconnection (Thousand \$)			

Record: 1/1 =OSC>

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Use this bar to scroll through multiple generators.

Report the month and year that the generator was interconnected.

Report the month and year that the first request for interconnection was filed with the grid operator.

Specify the grid voltage, in kV, at the point of interconnection between the generator and the grid.

NOTE

Complete a separate SCHEDULE 5 for each generator that started commercial operation during the data year (calendar year for which this survey is being filed). For example, if Reporting is as of December 31, 2007, then data year is 2007.

For help with specific data elements on this schedule, please refer to the form instructions by clicking "Help" at the top left portion of the screen.

Enter interconnection data only for generators that came on line in the same year for which you are submitting data. If you have any questions, please call the Survey Manager to request further assistance.

SCHEDULE 5. NEW GENERATOR INTERCONNECTION INFORMATION (Continued)

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

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8 Total Cost Incurred For The Direct, Physical Interconnection (Thousand \$)

9 Equipment Included In The Direct Interconnection Cost (Check All Of The Following That Apply)

a. Transmission Or Distribution Line:	<input type="checkbox"/>	<input type="checkbox"/>
b. Transformer	<input type="checkbox"/>	<input type="checkbox"/>
c. Protective Devices	<input type="checkbox"/>	<input type="checkbox"/>
d. Substation Or Switching Station	<input type="checkbox"/>	<input type="checkbox"/>
e. Other Equipment (specify in SCHEDULE 7, Footnotes)	<input type="checkbox"/>	<input type="checkbox"/>

10 a. Total Cost For Other Grid Enhancements/Reinforcements Needed To Accommodate Power Deliveries From the Generator (Thousand \$)

b. Will This Cost Be Repaid?

11 Were Specific Transmission Use Rights Secured as a Result of the Interconnection Costs Incurred?

Record: 1/1 ... <OSC>

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Specify the total cost incurred, *in thousands of dollars*, to accomplish the physical interconnection

Check each of the types of equipment that are included in the cost amount reported on line 8. If there are significant types of equipment that are not included in the list, please specify what additional equipment was needed for the interconnection in SCHEDULE 7 COMMENTS

Specify the amount incurred, *in thousands of dollars*, for any other grid enhancements or reinforcements that were needed to accommodate power deliveries from the new generator. If these costs, or some portion of these costs, will be repaid to your company at some time in the future by the owner of the grid, or by the party with whom you contracted for the interconnection, please check "yes" in line 10B; otherwise, check "no" in 10B.

SCHEDULE 6. BOILER INFORMATION
(This information was formerly collected on Form EIA-767,
Steam-Electric Plant Operation and Design Report)

This schedule is required to be completed for all existing organic-fueled or combustible renewable-fueled steam-electric plants with a total generator nameplate capacity of at least **10** megawatts; and all planned (5-year plans) new organic-fueled or combustible renewable-fueled steam-electric plants with a total generator nameplate capacity of at least **10** megawatts.

Some parts of SCHEDULE 6 are not required to be completed for plants with a total generator nameplate capacity *less than* **100** megawatts. These parts are specifically noted in the form and/or the instructions.

Identification information should be a code commonly used by plant management for that equipment (e.g., "2," "A101," "7B," etc.). Select a code for each piece of equipment and use it for that equipment throughout this form. The code should be a *maximum of six characters long* and should conform to codes reported for the same equipment (especially generators) on other EIA forms. Do not use blanks in the code. Do not enter "NA" for those lines that are not applicable.

Plants less than 100 MW in size should *only* complete lines 1, 2, 3 and if applicable, 5 and 6. Planned equipment that is on order and expected to go into commercial service within **5** years must be reported. If two or more pieces of equipment (e.g., two generators) are associated with a single boiler, report each identification code, separated by commas, under the appropriate boiler. Do not change preprinted equipment identification.

SCHEDULE 6. PART A. PLANT CONFIGURATION

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cy

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SUBMIT Last Update Date: _____

Schedule 1 2 3A 3B 3C 4 5 6A 6B 6C 6D and 6E 6F

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Energy Information Administration
Form EIA-860 (2007)

ANN
Any corrections/updates to data
be reported in Schedule 7, Con
SCHE
(FOR PLANTS EQUAL TO OR GREATER
COMPLETE ONLY LINES 1, 2, 3, 4, 5 AND 6)

Operator ID 99999 Operator Name Other
Reporting as of December 31 Year 2007

Line	Plant	
1	Boiler ID	<input type="text"/>
2	Associated Generator(s) ID	<input type="text"/>
3	Generator Associations with Boiler as Actual or Theoretical (indicate "A" for actual association or "T" for theoretical association)	<input type="text"/>
4	Associated Cooling System(s) ID	<input type="text"/>
5	Associated Flue Gas Particulate Collector(s) ID (include flue gas desulfurization units that also remove particulate matter)	<input type="text"/>
6	Associated Flue Gas Desulfurization Unit(s) ID (include flue gas particulate collectors that also remove sulfur dioxide)	<input type="text"/>

Record: 1/1

Using each boiler as a starting point, complete the entire column under the boiler identification with the requested information on each piece of associated existing or planned equipment (e.g., generators, cooling systems, etc.). Report waste-heat boilers with auxiliary firing. Do **not** report waste-heat boilers without auxiliary firing, or auxiliary house or start-up boilers. A waste-heat boiler is a boiler that receives all or a substantial portion of its energy input from the noncombustible exhaust gases of a separate fuel-burning process. Combined cycle units with auxiliary firing report the heat recovery steam generators (HRSGs) on Line 1.

Multiple generators operated as a single unit (e.g., cross compound and topping generators) should be identified as a group with one identification code. Combined cycle units with auxiliary firing report only the steam generators. Do **not** report the combustion turbine portion of the combined cycle unit. Do **not** report auxiliary generators.

Indicate "A" for actual association during year or "T" for theoretical associations.

If a combination particulate collector is associated with a single boiler, identify the collectors as a single group. If the particulate collector also removes sulfur dioxide, identify the unit in lines 5 and 6 using the same identification code.

For lines 2, 4, 5, 6, 7, and 8, if a piece of equipment (e.g., a generator or a cooling system) serves two or more boilers, repeat the identification information for that equipment under each appropriate boiler.

NOTE

A **cooling system** is an equipment system that provides water to the condensers and includes water intakes and outlets, cooling towers and ponds, pumps, and pipes. Identify a single plant cooling system, not separate systems, unless systems are physically separated, e.g., have separate water intake and outlet structures, where each system can be operated independently.

SCHEDULE 6. PART A. PLANT CONFIGURATION (Continued)

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(include flue gas desulfurization units that also remove particulate matter)

6	Associated Flue Gas Desulfurization Unit(s) ID (include flue gas particulate collectors that also remove sulfur dioxide)	<input type="text"/>
7	Associated Flue(s) ID	1 <input type="text"/>
8	Associated Stack(s) ID	1 <input type="text"/>

Record: 1/?

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For reporting purposes, identify an associated flue gas desulfurization unit to include all the trains (or modules) associated with a single boiler. If the flue gas desulfurization unit also removes particulate matter, identify the unit in lines 5 and 6 using the same identification code.

NOTE

A stack is defined as a tall, vertical structure containing one or more flues used to discharge products of combustion into the atmosphere.

A flue is defined as an enclosed passageway within a stack for directing products of combustion to the atmosphere. For stacks with multiple flues, report in one column all flues that serve the boiler identified in line 1. Separate multiple entries with commas. If the stack has a single flue, use the stack identification for the flue identification.

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

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Action Edit Help

SUBMIT Last Update Date: _____

Schedule 1 | 2 | 3A | 3B | 3C | 4 | 5 | 6A | 6B | 6C | 6D and 6E | 6F | 6G | 6H | 6I | Schedule 7 | Error-log

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Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR REPORT

If you make a change to any of the pre-entered data on this schedule, please state in Schedule 7, Comments, the reason for making the change. Fill in any

SCHEDULE 6. PART B. BOILER INFORMATION - AIR EMISSION STANDARDS
(DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW)
(COMPLETE A SEPARATE PAGE FOR EACH BOILER)

Operator ID 99999 Operator Name Other

Reporting as of December 31 Year 2007

Line	Plant	Category	Particulate Matter (a)	Sulfur Dioxide (b)	Nitrogen Oxides (c)
1	Boiler ID				
2a	Type Of Boiler Standards Under Which The Boiler Is Operating (use codes)	<input type="radio"/> D <input type="radio"/> Da <input type="radio"/> Db <input type="radio"/> Dc <input type="radio"/> N			
2b	Is Boiler Operating Under a New Source Review (NSR) Permit? If Yes, list date and identification number of the issued permit	<input type="checkbox"/> Date(MM-YYYY) <input type="checkbox"/> <input type="checkbox"/> Permit Number			
3	Type of Statute or Regulation (use codes)	<input type="radio"/> FD <input type="radio"/> ST <input type="radio"/> LO <input type="radio"/> NA <input type="radio"/> FD <input type="radio"/> ST <input type="radio"/> LO <input type="radio"/> NA <input type="radio"/> FD <input type="radio"/> ST <input type="radio"/> LO <input type="radio"/> NA			
4	Emission Standard Specified				
5	Unit of Measurement Specified (use codes)				
6	Time Period Specified (use codes)				

Record: 1/1 <OSC>

Complete a separate page for each existing or planned boiler.

Indicate the standards as described in the U.S. Environmental Protection Agency regulation under 40 CFR. Select from the following codes of the New Source Performance Standards (NSPS). (See EIA 860 Instructions - pg. 15)

Column (b), Sulfur Dioxide, select from the unit of measurement codes. (DP* is the preferred measurement) See EIA 860 Instructions - pg. 16 for a complete list.

Column (c), if there is no standard for nitrogen oxide emissions, report "NA" for line 3, and skip the remaining column (c) items. See EIA 860 Instructions - pg. 16 for a complete list.

This refers to the numeric value for the unit of measurement in line 5. If no numeric value is specified, report "NA." For Sulfur Dioxide (column (b)), if the standard requires both an emission rate and a percent scrubbed, report both standards separated by a slash (e.g., 1.2/90 for emission standards specified in line 4, column (b), and pounds of sulfur dioxide per million Btu in fuel/percent sulfur removal efficiency (by weight) for units of measurement in line 5, column (b), indicate in a footnote on SCHEDULE 7.

Column (a), Particulate Matter, select the appropriate unit of measurement code. (*PB is the preferred measurement). See EIA 860 Instructions - pg. 16 for a complete list.

Time Period Specified. Consult EIA 860 Instructions – pg. 17 if necessary.

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

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7	Year Boiler Was or is Expected to Be in Compliance With Federal, State and/or Local Regulation	<input type="text"/>	<input type="text"/>	<input type="text"/>
8	If Not in Compliance, Strategy for Compliance (use codes)	<input type="text"/>	<input type="text"/>	<input type="text"/>
9	Select Existing Strategies to meet the Sulfur Dioxide and Nitrogen Oxides Requirements of Title IV of the Clean Air Act Amendment of 1990 (use codes)	<input type="text"/>	<input type="text"/>	<input type="text"/>
10	Select Planned Strategies to meet the Sulfur Dioxide and Nitrogen Oxides Requirements of Title IV of the Clean Air Act Amendment of 1990 (use codes)	<input type="text"/>	<input type="text"/>	<input type="text"/>

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 Record: 1/1 <OSC>

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If the boiler is currently in compliance, enter the year the boiler came into compliance or the year of the regulation, whichever came last. Report "9999" only if a revision of a governing regulation is being sought or no plans have been approved to bring the boiler into compliance.

Column (c), select (up to three) strategy for compliance codes. See EIA 860 Instructions – pg. 17 for further information.

Column (b), select (up to three) strategy for compliance codes. See EIA 860 Instructions – pg. 18 for further information.

SCHEDULE 6. PART C. BOILER INFORMATION – DESIGN PARAMETERS

(DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW)

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ANNUAL ELECTRIC GENERATOR REPORT

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SCHEDULE 6. PART C. BOILER INFORMATION - DESIGN PARAMETERS
 (DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW)
 (COMPLETE A SEPARATE PAGE FOR EACH BOILER)

Operator ID: 99999 Operator Name: Other

Reporting as of December 31 Year: 2007

Line	Plant	
1		Boiler ID
2		Boiler Status
3		Boiler Actual or Projected Date of Commercial Operation (e.g., 12-2001)
4		Boiler Actual or Projected Retirement Date (e.g., 12-2001)
5		Boiler Manufacturer (use code)
6		Type of Firing Used with Primary Fuels (use codes)
7		Maximum Continuous Steam Flow at 100 Percent Load (thousand pounds per hour)
8		Design Firing Rate at Maximum Continuous Steam Flow for Coal (nearest 0.1 ton per hour)
9		Design Firing Rate at Maximum Continuous Steam Flow for Petroleum (nearest 0.1 barrels per hour)
10		Design Firing Rate at Maximum Continuous Steam Flow for Gas (nearest 0.1 thousand cubic feet per hour)
11		Design Firing Rate at Maximum Continuous Steam Flow for Other (specify fuel and unit on SCHEDULE 7)
12		Design Waste Heat Input Rate at Maximum Continuous Steam Flow (million Btu per hour)

Record: 1/1 =OSC>

Complete for each existing or planned boiler. If a procurement contract has been signed for an upgrade or retrofit of a boiler: 1) complete a separate page for the existing boiler; 2) explain in SCHEDULE 7, COMMENTS how long the existing equipment will be out of service; and 3) using the same boiler identification, complete a separate SCHEDULE 6 PART C for the planned upgrade or retrofit.

Double-click here to select appropriate status code from drop down list (See list of codes in EIA 860 Instructions – pg. 19)

Line 5. Double-click here to select the appropriate manufacturer code from the list (See list of codes in EIA 860 Instructions – pg. 20 for a complete list.)

The month-year date should be entered as follows: August 1959 as 8-1959. If the month is unknown, use the month of June as a default and enter a 6 before the year.

Line 6. Select appropriate Type of Firing Used with Primary Fuels code. See EIA 860 Instructions – pg. 21 if necessary.

For waste-heat boilers with auxiliary firing, enter the firing rate for auxiliary firing and complete line 12 for waste heat. Enter firing rate data for primary fuels as entered in line 13. Do **NOT** enter firing rate for startup or flame stabilization fuels.

SCHEDULE 6. PART C. BOILER INFORMATION – DESIGN PARAMETERS (DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW) (Continued)

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12	Design Waste Heat Input Rate at Maximum Continuous Steam Flow (million Btu per hour)	<input type="text"/>
13	Primary Fuels Used in Order of Predominance (use codes)	<input type="text"/>
14	Boiler Efficiency When Burning Primary Fuel at 100 Percent Load (nearest 0.1 percent)	<input type="text"/>
15	Boiler Efficiency When Burning Primary Fuel at 50 Percent Load (nearest 0.1 percent)	<input type="text"/>
16	Total Air Flow Including Excess Air at 100 Percent Load (cubic feet per minute at standard conditions)	<input type="text"/>
17	Wet Or Dry Bottom (for coal-capable boilers), (enter "W" for Wet or "D" for Dry)	<input type="checkbox"/>
18	Fly Ash Re-injection (enter "Y" for Yes or "N" for No)	<input type="checkbox"/>

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See table of energy source (fuel) codes. Show design firing rates for each fuel in the associated lines 8, 9, 10, and 11. Do **NOT** include startup fuels.

Report at standard temperature and pressure, i.e., 68 degrees Fahrenheit and one atmosphere pressure.

Enter "W" for Wet or "D" for Dry.

NOTE

A *waste-heat boiler* is a boiler that receives all or a substantial portion of its energy input from the noncombustible exhaust gases of a separate fuel-burning process.

Wet Bottom is defined as slag tanks that are installed at the furnace throat to contain and remove molten ash from the furnace.

Dry Bottom is defined as having no slag tanks at the furnace throat area; throat area is clear; bottom ash drops through throat to bottom ash water hoppers. This design is used where the ash melting temperature is greater than the temperature on the furnace wall, allowing for relatively dry furnace wall conditions.

SCHEDULE 6. PART D. BOILER INFORMATION – NITROGEN OXIDE EMISSION CONTROLS

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Energy Information Administration
Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR REPORT

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

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SCHEDULE 6. PART D. BOILER INFORMATION - NITROGEN OXIDE EMISSION CONTROLS
(COMPLETE A SEPARATE PAGE FOR EACH BOILER)

Operator ID: 99999 Operator Name: Other _____

Reporting as of December 31 Year: 2007

Line Plant _____

1. Boiler ID _____

2. Nitrogen Oxide Control Status (use codes) _____

NITROGEN OXIDE CONTROL EQUIPMENT AND OR PROCESS

3. Low Nitrogen Oxide Control Process (use codes)

4. Manufacturer of Low Nitrogen Oxide Control Burners (use code)

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

1. Does This Boiler Have Mercury Emission Controls? (check yes or no) Yes No

2. If "Yes," Check all of the boxes that apply below:

<input type="checkbox"/> Activated carbon injection system <input type="checkbox"/> Baghouse <input type="checkbox"/> Dry Scrubber <input type="checkbox"/> Electrostatic Precipitator	<input type="checkbox"/> Flue Gas Desulfurizat... <input type="checkbox"/> Lime Injection <input type="checkbox"/> Wet Scrubber <input type="checkbox"/> Other
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Complete a separate page for each existing or planned boiler.

Nitrogen Oxide Control Status; see EIA 860 Instructions – pg. 22.

Select, (up to three) from the low nitrogen oxide control processes reflected in EIA 860 Instructions – pg. 22

Select from the low nitrogen oxide control burner manufacturers reflected in EIA 860 Instructions – pg. 22-23.

If "Yes" is checked on Line 1, Does This Boiler have Mercury Emission Controls? Mark all of the boxes that apply to the type of mercury emission controls used. If the type of control is "other", please describe in SCHEDULE 7, COMMENTS

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

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Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

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**SCHEDULE 6. PART F. COOLING SYSTEM INFORMATION - DESIGN PARAMETERS
(DATA NOT REQUIRED FOR PLANTS LESS THAN 100 MW)
(COMPLETE A SEPARATE PAGE FOR EACH COOLING SYSTEM)**

Operator ID 99999 Operator Name Other
Reporting as of December 31 Year 2007

Plant _____

Line

1. Cooling System ID
2. Cooling System Status (use codes)
3. Cooling System Actual or Projected in Service Date of Commercial Operation (e.g., 12-2001)
4. Type of Cooling System (use codes)
5. Source of Cooling Water Including Makeup Water (name)
(if discharge is into different water body, footnote in SCHEDULE 7)
6. Design Cooling Water Flow Rate at 100 percent Load at Intake (cubic feet per second)
7. Actual or Projected In-Service Date for Chlorine Discharge Control Structures and Equipment (month and year of commercial operation, e.g., 12-1982)

Cooling Ponds

8. Actual or Projected In-Service Date (month and year of commercial operation, e.g. 12-1982)
9. Total Surface Area (acres)

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Double-click here for drop down list of Cooling System Status and select the appropriate Cooling System Status. See EIA 860 Instructions – pg. 24 if necessary.

Double-click here for a drop down list of Type of Cooling system codes. (You may select up to four.) See EIA 860 Instructions – pg. 24 if necessary.

If more than one source of cooling water is used by a cooling system, enter other sources in a footnote in SCHEDULE 7. If water is purchased, report “municipal.” If water is taken from wells, report “wells.” If source of water is “municipal” or “wells,” do NOT complete lines 19, 20, 21, and 22 and provide the total amount of water used at 100 percent load in Line 5.

NOTE

If a procurement contract has been signed for an upgrade or retrofit of a cooling system: 1) complete a separate page for the existing cooling system; 2) explain on SCHEDULE 7, COMMENTS how long the existing equipment will be out of service; and 3) using the same cooling system identification, complete a separate SCHEDULE 6 PART F, for the planned upgrade or retrofit.

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

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Cooling Ponds

8. Actual or Projected In-Service Date (month and year of commercial operation, e.g. 12-1982)

9. Total Surface Area (acres)

10. Total Volume (acre-feet)

Cooling Towers

11. Actual or Projected In-Service Date (month and year of commercial operation, e.g. 12-1982)

12. Type of Towers (use codes)

13. Maximum Design Rate of Water Flow at 100 Percent Load (cubic feet per second)

14. Maximum Power Requirement at 100 Percent Load (megawatts)

INSTALLED COST OF COOLING SYSTEM EXCLUDING LAND AND CONDENSERS (thousand dollars)

15. Total System

16. Ponds (if applicable)

17. Towers (if applicable)

18. Chlorine Discharge Control Structures and Equipment (if applicable)

COOLING WATER INTAKE AND OUTLET LOCATIONS

19. Maximum Distance from Shore (feet) Intake Outlet

20. Average Distance below Water Surface (feet)

21. Latitude (degrees, minutes, seconds)

For Line 15, the cost should include amounts for items such as pumps, piping, canals, ducts, intake and outlet structures, dams and dikes, reservoirs, cooling towers, and appurtenant equipment. The cost of condensers should not be included.

Select, (up to two) from the list of Cooling Tower codes which can be found in the EIA 860 Instructions – pg. 25.

Enter the actual installed cost for the existing system or the anticipated cost to bring a planned system into commercial operation. Installed cost should include the cost of all major modifications. A major modification is any physical change which results in a change in the amount of air or water pollutants or which results in a different pollutant being emitted.

If the cooling system is a zero discharge type (RC, RF, RI, RN), do NOT complete column (b). The intake and the outlet are the points where the cooling system meets the source of cooling water found on line 5. For all longitude and latitude coordinates, provide degrees, minutes, and seconds

NOTE

A **cooling pond** is a natural or man-made body of water that is used for dissipating waste heat from power plants.

Enter Datum for the above Latitude and Longitude, if Known; Otherwise Enter "UNK": The longitude and latitude measurement for a location depends in part on the coordinate system (or "datum") the measurement is keyed to. "Datum systems" used in the United States include the North American Datum 1927 (NAD27), North American Datum 1983 (NAD83) and World Geodetic Survey 1984 (WGS84).

(For background information on datums and their uses, see: <http://biology.usgs.gov/index.html>).

SCHEDULE 6. PART G. FLUE GAS PARTICULATE COLLECTOR INFORMATION

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SCHEDULE 6. PART G. FLUE GAS PARTICULATE COLLECTOR INFORMATION

(Complete a Separate Page for Each Flue Gas Particulate Collector)

Operator ID 99999 Operator Name Other
 Reporting as of December 31 Year 2007

Line	Description	Plant	Min	Max
1	Flue Gas Particulate Collector ID (as reported on Schedule 6. Part A, line 5.)			
2	Flue Gas Particulate Collector Actual or Projected In-Service Date of Commercial Operation (i.e.12-2001)			
3	Flue Gas Particulate Collector Status (use code)			
4	Type of Flue Gas Particulate Collector (use codes)			
5	Installed Cost of Flue Gas Particulate Collector Excluding Land (thousand dollars)			
DESIGN FUEL SPECIFICATION FOR ASH (AS BURNED, TO NEAREST 0.1% BY WEIGHT)				
6	For Coal		Min	Max
7	For Petroleum		Min	Max
DESIGN FUEL SPECIFICATION FOR SULFUR (AS BURNED, TO NEAREST 0.1% BY WEIGHT)				
8	For Coal		Min	
9	For Petroleum		Min	
DESIGN SPECIFICATIONS AT 100 PERCENT GENERATOR LOAD				
10	Collection Efficiency (to nearest 0.1 %)			
11	Particulate Emission Rate (pounds/hour)			
12	Particulate Collector Gas Exit Rate (actual cubic ft/ min)			
13	Particulate Collector Gas Exit Temperature (degrees F.)			

Record: 1/1

Double-click to select the appropriate equipment status code. A complete list can be found in the EIA 860 Instructions – pg. 26

Double-click to select the appropriate flue gas particulate collector code found in the EIA 860 Instructions – pg. 26 (For combination units, select up to three.)

Enter value for fuel. Enter range of values, if applicable.

Enter the actual installed cost for the existing system or the anticipated cost to bring a planned system into commercial operation. Installed cost should include the cost of all major modifications. A major modification is any physical change which results in a change in the amount of air or water pollutants or which results in a different pollutant being emitted.

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

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SCHEDULE 6, PART H. FLUE GAS DESULFURIZATION UNIT INFORMATION - DESIGN PARAMETERS
(COMPLETE A SEPARATE PAGE FOR EACH FLUE GAS DESULFURIZATION UNIT)

Operator ID 99999 Operator Name Other

Reporting as of December 31 Year 2007

Line	Plant	
1		Flue Gas Desulfurization Unit ID (as reported on Schedule 6, part A)
2		Flue Gas Desulfurization Unit Status (use codes)
3		Flue Gas Desulfurization Unit Actual Or Projected Inservice Date of Commercial Operation (i.e. 12-2001)
4		Type of Flue Gas Desulfurization Unit (use code)
5		Type of Sorbent (use code)
6		Salable Byproduct Recovery, Enter "Y" for Yes or "N" for No
7		Flue Gas Desulfurization Manufacturer (use code)
8		Annual Pond And Land Fill Requirements (nearest acre foot per year)
9		Is Sludge Pond Lined, Enter "Y" for Yes, or "N" for No, or "NA" for Not Applicable
10		Can Flue Gas Bypass Flue Desulfurization Unit, Enter "Y" for Yes, or "N" for No

DESIGN FUEL SPECIFICATIONS FOR COAL

Double-click to select from the drop down list of equipment status codes. A complete list can be found in the EIA 860 Instructions – pg. 27. If the code selected is "OP", complete lines 4 through 14, otherwise do not complete these lines.

Select, (up to four) from the FGD unit codes listed in the EIA 860 Instructions – pg. 27

Select, (up to four) from the sorbent codes listed in the EIA 860 Instructions – pg. 27

Select one code from the provided flue gas desulfurization unit manufacturer codes. A complete list can be found in the EIA 860 Instructions – pg. 28.

NOTE

If a procurement contract has been signed for an upgrade or retrofit of a Flue Gas Desulfurization Unit: 1) complete a separate page for the existing unit; 2) explain on SCHEDULE 7, COMMENTS, how long the existing equipment will be out of service; and 3) using the same FGD identification, complete a separate SCHEDULE 6. Part H for the planned upgrade or retrofit.

SCHEDULE 6. PART H. FLUE GAS DESULFURIZATION UNIT INFORMATION – DESIGN PARAMETERS (continued)

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Last Update Date:
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DESIGN FUEL SPECIFICATIONS FOR COAL

11 Ash (to nearest 0.1 % by weight) 12 Sulfur (to nearest 0.1 % by weight)

Number Of Flue Gas Desulfurization Unit Scrubber Trains (Or Modules)

13 Total

14 Operated at 100 Percent Load

Design Specifications Of Flue Gas Desulfurization Unit At 100 % Generator Load

15 Removal Efficiency For Sulfur Dioxide (to nearest 0.1 % by weight)

16 Sulfur Dioxide Emission Rate (lbs/hr) 18 Flue Gas Exit Temperature (degrees F)

17 Flue Gas Exit Rate (actual cubic ft/min) 19 Flue Gas Entering Desulfurization Unit (percent of total)

Installed cost of Flue Gas Desulfurization Unit, excluding land (Thousand Dollars)

20 Structure and Equipment 22 Other (installed cost of flue gas desulfurization unit)

21 Sludge Transport And Disposal System 23 Total (sum of lines 20, 21, 22)

Report the removal efficiency as the percent by weight of gases removed from the flue gas.

For lines 20, 21, 22, and 23, enter the actual installed costs for the existing systems or the anticipated costs to bring a planned system into commercial operation. Installed cost should include the cost of all major modifications. A major modification is any physical change which results in a change in the amount of air or water pollutants or which results in a different pollutant being emitted. The total (line 23) will be the sum of lines 20, 21, and 22 which *includes* any other costs pertaining to the installation of the unit.

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

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ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

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Form Approval
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Approval Expires 12/31/2010

Design parameters are not likely to vary from year to year. If you make a change to any of the pre-entered data on this schedule, please state in Schedule 7, Comments, the reason for making the change. Fill in any missing data.

SCHEDULE 6 I. STACK AND FLUE INFORMATION - DESIGN PARAMETERS
(Data not required for plants less than 100 mw)
(Complete a Separate Page For Each Stack And Flue)

Operator ID 99999 Operator Name Other

Reporting as of December 31 Year 2007

Line Plant

1	Flue ID (as reported on Schedule 6, part A, line 8)	<input type="text"/>
2	Stack ID (as reported on Schedule 6, part A, line 7)	<input type="text"/>
3	Stack (or Flue) Actual or Projected In-Service Date of Commercial Operation (i.e., 12-2001)	<input type="text"/>
4	Status of Stack (or Flue) (use code)	<input type="text"/>
5	Flue Height at Top from Ground Level (feet)	<input type="text"/>
6	Cross-Sectional Area At Top of Flue (nearest square foot)	<input type="text"/>

DESIGN FLUE GAS EXIT (AT TOP OF STACK)

7	Rate at 100 Percent Load (actual cubic ft/min)	<input type="text"/>	10	Temperature at 50 % Load (deg. F.)	<input type="text"/>
8	Rate At 50 Percent Load (actual cubic ft/min)	<input type="text"/>	11	Velocity at 100 % Load (ft / sec)	<input type="text"/>
9	Temperature at 100 Percent Load (degrees F)	<input type="text"/>	12	Velocity at 50 % Load (ft / sec)	<input type="text"/>

ACTUAL SEASONAL FLUE GAS EXIT TEMPERATURE (DEGREES FAHRENHEIT)

12 Summer Season

Record: 1/1 =OSC>

Start 8:48 PM

For Line 1, **Flue ID**, and line 2, **Stack ID**, there must be an entry. If there is *only one* flue, also use the stack ID as the flue ID. Identification codes must be the same as reported on SCHEDULE 6 PART A.

Select an equipment status code. See EIA 860 Instructions – pg. 29 if necessary.

NOTE

If a procurement contract has been signed for an upgrade or retrofit of a stack or flue: 1) complete a page for the existing stack or flue; 2) explain on SCHEDULE 7, COMMENTS, how long the existing structure will be out of service; and 3) using the same flue and stack identifications, complete a separate SCHEDULE 6. Part I for the planned upgrade or retrofit.

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

ANNUAL ELECTRIC GENERATOR REPORT Utility: 99999 - Other Cycle: 2007

Action Edit Help

SUBMIT Last Update Date: Data Accepted?

ACTUAL SEASONAL FLUE GAS EXIT TEMPERATURE (DEGREES FAHRENHEIT)

13 Summer Season

14 Winter Season

15 Source (For Source, Enter 'M'-measured, 'E'-estimated)

STACK LOCATION

16 Stack Location - Latitude (degrees, minutes, seconds)

17 Stack Location - Longitude (degrees, minutes, seconds)

18 Enter Datum for Latitude and Longitude, if Known; Otherwise Enter "UNK"

Record: 1/1 ... =OSC>

Start Oracle Application S... Oracle Developer ... 2008 New IDC MAN... Document3 - Micros... Inbox - Microsoft Ou... Document6 - Micros... 9:46 PM

Seasonal average flue gas exit temperatures should be reported in degrees Fahrenheit, based on the arithmetic mean of measurements during operating hours. Summer season includes June, July, and August. Winter season includes January, February, and December.

Enter "M" for measured or "E" for estimated

The longitude and latitude measurement for a location depends in part on the coordinate system (or "datum") the measurement is keyed to. "Datum systems" used in the United States, include the North American Datum 1927 (NAD27), North American Datum 1983 (NAD83) and World Geodetic Survey 1984 (WGS84). If you know the datum system for the plant longitude and latitude, enter the system name (e.g., NAD83) on line 7. If you do not know the datum system used, enter **UNK**.

SCHEDULE 7. COMMENTS

Use this schedule to record any notes that may be necessary to clarify information entered anywhere on the survey form. This space is also used to record any information updates to blocked data fields. **Remember to include all identifying codes, such as plant codes and generator codes, and the Schedule, Part, and line number to which the footnote applies.**

Oracle Developer Forms Runtime
ANNUAL ELECTRIC GENERATOR

U.S. Department of Energy
Energy Information Administration
Form EIA-860 (2007)

ANNUAL ELECTRIC GENERATOR
REPORT

Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010

SCHEDULE 7. COMMENTS

Operator ID: 99999 Operator Name: Other

Reporting as of December 31 Year: 2007

Notes
PROVIDE ALL IDENTIFYING CODES
(e.g., plant code, generator id, boiler id) to which
the comment applies, along with the comment.

Schedule	Part	Line Number	Notes

Record: 1/1 ... <OSC>

Start | Oracle Application S... | Oracle Developer ... | 2008 New IDC MAN... | Document3 - Micros... | Inbox - Microsoft Ou... | Document6 - Micros... | 9:47 PM

ERROR LOG (Continued)

The screenshot displays the Oracle Developer Forms Runtime - Web interface. The main window is titled "ANNUAL ELECTRIC GENERATOR REPORT" with utility "99999 - Other Cycle: 2007". It includes a menu bar (Action, Edit, Help) and a toolbar. Below the menu is a "SUBMIT" button and a "Data Accepted?" checkbox. A navigation bar contains tabs for "Schedule 1", "2", "3A", "3B", "3C", "4", "5", "6A", "6B", "6C", "6D and 6E", "6F", "6G", "6H", "6I", "Schedule 7", and "Error-log". The main content area shows the "U.S. Department of Energy Energy Information Administration Form EIA-860 (2007)" header, "ANNUAL ELECTRIC GENERATOR REPORT" title, and fields for "Operator ID", "Operator Name", "Reporting as of December 31", and "Year 2007". A "Form Approval" section is also visible.

An "EIA-860 Error Log" table is present, with columns for "Facility", "Generator", "Schedule", "Part", "Line", "Error Num", "Error Description/Override Comment/EIA Comment", "Field Value", "Error Type", and "Override". A callout box points to the "Override" column header with the text: "Click this button to override an error. Provide a detailed explanation for the override in the space provided."

An "EIA-860 Error Override Screen" dialog box is open, titled "EIA-860 Error Override Screen". It contains the same header information as the main form. A large text area is provided for the override explanation, with a callout box pointing to it: "Provide a detailed explanation for the override in the space provided." Below the text area are "Save", "Delete", and "Cancel" buttons, and an "EIA Comment" field.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "9:49 PM".

SUBMITTING YOUR DATA

The screenshot shows the Oracle Developer Forms Runtime - Web interface. The title bar reads "Oracle Developer Forms Runtime - Web". Below it, the window title is "ANNUAL ELECTRIC GENERATOR REPORT Utility: 7". The menu bar includes "Action", "Edit", and "Help". A toolbar contains various icons, with the "SUBMIT" button highlighted by a red circle. To the right of the toolbar, the text "Last Update Date: 06/11/2008" is displayed. Below the toolbar, there is a row of tabs labeled "Schedule 1", "2", "3A", "3B", "3C", "4", "5", "6A", "6B", "6C", and ".". The main content area displays the text: "U.S. Department of Energy", "Energy Information Administration", "Form EIA-860 (2007)", and "(EXISTING POWER PLANTS AND T".

The “SUBMIT” button as it appears here on each schedule. Use this button **only** when you have completed the entire survey and are ready to submit your data

When you have finished entering data onto the form and all errors on the Error Log have been corrected or overridden, you may submit your data by clicking the “SUBMIT” button located at the upper left portion of any data entry screen. A message will appear confirming your submission. Your data will be sent immediately to EIA for processing.

This will complete your EIA-860 Data submission for the current year.

GLOSSARY

The glossary for this form is available online at the following URL:

<http://www.eia.doe.gov/glossary/index.html>