BASIN ELECTRIC POWER COOPERATIVE

1717 EAST INTERSTATE AVENUE
BISMARCK, NORTH DAKOTA 58501-0564
PHONE: 701/223-0441
FAX: 701/224-5336

June 24, 2009

Mr. Tony Clark, President
North Dakota Public Service Commission
Capitol Building
600 E. Boulevard Avenue
Bismarck, ND 58505

Dear Mr. Clark:

Pursuant to the requirements of the North Dakota Energy Conversion and Transmission Facility Siting Act, Basin Electric Power Cooperative hereby submits its Ten Year Plan.

Enclosed is an original and 10 copies of the plan.

Sincerely,

Ronald R. Harper
CEO & General Manager

vlw
ATTACHMENT

STATE OF NORTH DAKOTA)
)
COUNTY OF BURLEIGH)

AFFIDAVIT OF MAILING

I hereby certify that the following list contains the names and last address of each designated state agency and/or state official given notice of filing of the Basin Electric Power Cooperative Ten Year Plan pursuant to the Rules and Regulations of the North Dakota Public Service Commission governing the Siting of Energy Conversion and Transmission Facilities. I hereby certify that I have, by depositing letters of notice with the United States Postal Service, caused notice to be given all such state agencies and state officials that Basin Electric Power Cooperative has filed their Ten Year Plan with the North Dakota Public Services Commission.

Name	Last Known Address
See Exhibit A Attached	See Exhibit A Attached

Matthew Stoltz
Signature

On this 22nd day of June, 2009, Matthew Stoltz known to me, under oath deposed and said the above Affidavit of Mailing is true and correct.

Seal
FAYE D. MILLER
Notary Public
State of North Dakota
My Commission Expires April 18, 2012

Faye D. Miller
Notary Public

Mail to: Public Service Commission
600 E. Blvd. Ave.; Capitol Building
Bismarck, ND 58505

EXHIBIT A

Mr. Mark Holzer
Director
ND Aeronautics Commission
P. O. Box 5020
Bismarck, ND 58502

Mr. Wayne Kutzer
Director
ND Dept. of Career & Tech. Education
600 E. Boulevard Ave.; Dept. 270
Bismarck, ND 58505-0610

Mr. Ryan Rauschenberger, Manager
ND Department of Commerce
Energy Development Impact Office
P.O. Box 5523
Bismarck, ND 58506-5523

Dr. Terry Dwelle
State Health Officer
ND Department of Health
600 E. Boulevard Ave.
Bismarck, ND 58505-0200

Ms. Maren Daley
Director
Job Service of ND
1601 E. Century Ave.
Bismarck, ND 58503

Ms. Karlene Fine
Director
ND Industrial Commission
600 E. Boulevard Ave.; Dept. 405
Bismarck, ND 58505-0840

Mr. Francis Ziegler
Director
ND Department of Transportation
608 E. Boulevard Ave.
Bismarck, ND 58505-0700

Mr. Wayne Stenehjem
Attorney General
State Capitol Building
600 E. Boulevard Ave.; Dept. 125
Bismarck, ND 58505

Mr. Paul Lucy, Director
ND Department of Commerce
Division of Economic Development
1600 E. Century Ave. Ste 2
Bismarck, ND 58503-0649

Mr. Doug Goehring
Commissioner
ND Department of Agriculture
600 E. Boulevard Ave.; Dept. 602
Bismarck, ND 58505

Ms. Lisa Fair McEvers
Commissioner
ND Department of Labor
600 E. Boulevard Ave.; Dept. 406
Bismarck, ND 58505-0340

Mr. Terry Steinwand
Director
ND Game & Fish Department
100 N. Bismarck Expressway
Bismarck, ND 58501-5095

Ms. Carol K. Olson
Director
ND Department of Human Services
600 E. Boulevard Ave.; Dept. 325
Bismarck, ND 58505-0250

Mr. Merlan Paaverud
Director
ND State Historical Society
612 E. Boulevard Ave.
Bismarck, ND 58505

Mr. Douglass Prchal
Director
ND Parks & Recreation Department
1600 E. Century Ave., Suite 3
Bismarck, ND 58503-0649

Ms. Cheryl Kulas
Director
ND Indian Affairs Commission
600 E. Boulevard Ave.
Capitol Building – 1st Floor Judicial Wing
Bismarck, ND 58505-0300

Mr. Scott Hochhalter
Board Administrator
ND Soil Conservation Committee
2718 Gateway Ave., Unit #104
Bismarck, ND 58503

Mr. Edward Murphy
State Geologist
ND Geological Survey
600 E. Boulevard Ave.
Bismarck, ND 58505

Mr. Gary Preszler
Commissioner
ND State Land Department
P. O. Box 5523
Bismarck, ND 58506-5523

Ms. Pam Sharp
Director
ND Office of Management & Budget
600 E. Boulevard Ave.
Department 110
Bismarck, ND 58505-0400

Mr. Dale Frink
State Engineer
ND State Water Commission
900 East Boulevard; Dept. 770
Bismarck, ND 58505-0850

AVS

Oracle Developer Forms Runtime - Web

EIA-923 Power Plant Operations Report Plant 6469 - Antelope Valley Cycle 12/2008

Action Edit Query Block Record Field Window Help

SUBMIT | Data Accepted? | Survey Submit 05/15/2009

Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors

U.S. Department of Energy
Energy Information Administration
Form EIA-923 (2008)

Power Plant Operations 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 criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.**

SCHEDULE 1. IDENTIFICATION

(Instructions for SCHEDULE 1 are on page 2)

Log Date/User:
15-MAY-2009
F860C14313

Survey Contact

First Name: Joseph Last Name: Leingang
Title: Director of Fuels
Address: 1717 E. Interstate Avenue
City: Bismarck State: ND Zip: 58503
EMAIL: jleingang@bepc.com
Telephone: 701-557-5648 Extension: FAX: 701-255-5144

Supervisor of Contact Person for Survey

First Name: Terry Last Name: Retterath
Title: Industrial Engineer III
Address: 1717 E. Interstate Avenue
City: Bismarck State: ND Zip: 58503
EMAIL: tlrat@bepc.com
Telephone: 701-223-0441 Extension: FAX: 701-255-5144

Report For

Company Name: Basin Electric Power Coop
Plant Name: Antelope Valley
Plant ID: 6469 PLANT_COUNTY: Mercer
Plant Address: Hwy 200
Plant City: Beulah State: ND

CHP ( ) Yes (•) No

Regulated (•) Yes ( ) No

For questions related to e-file system: CNEAFHelpcenter@eia.doe.gov 202-586-9595

For questions about the data requested:

Schedulex 1 and 4: Chris Cassar	christopher.cassar@eia.doe.gov	202-586-5448
Schedule 2: Becky McNerney	rebecca.mcnerney@eia.doe.gov	202-586-4509
Schedules 3 & 5: Ron Hankey	rhankey@eia.doe.gov	202-586-2630
Schedules 6 & 7: Marie Rinkoski Spangler	marie.rinkoski-spangler@eia.doe.gov	202-586-2446

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Exhibit 1

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EIA-923 Power Plant Operations Report Plant 6469 - Antelope Valley Cycle: 1 2/2008

Action Edit Query Block Record Field Window Help

SUBMIT | Data Accepted! Survey Submit 05/15/2009

Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors

U.S. Department of Energy
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SCHEDULE 8. ANNUAL ENVIRONMENTAL INFORMATION

SCHEDULE 8. PARTS A through F are filed annually and must be reported by steam-electric organic-fueled power plants with a total steam turbine capacity of 100 megawatts and above (only plants that reported boiler-level consumption on SCHEDULE 3. Part A.). All steam-electric organic-fueled power plants with a total steam turbine capacity of 10 megawatts and above are responsible for filing Schedule 8, Parts C, E, and F. Annual data are due by March 30 following the reporting year.

SCHEDULE 8. PART A. ANNUAL BYPRODUCT DISPOSITION

(Instructions for SCHEDULE 8 PART A are on page 14)

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

☐ NO BYPRODUCTS

	Disposal			Sale or Beneficial Use			Storage		
Byproduct	On-Site Landfill	On-site Ponds	Disposal Off-site	Sold	Used On-site	Used Off-site	Stored On-site	Stored Off-site	Total
Fly ash from standard boiler/PCD units									
Fly ash from units with dry FGD			469.3	32.7		106.5			608.5
Fly ash from FBC units									
Bottom ash from standard boiler units			141.4						141.4
Bottom (bed) ash from FBC units									
FGD Gypsum									
Other FGD byproducts									
Ash from coal gasification (IGCC) units									
Other (specify via footnote on Schedule 9)									
Steam Sales (MMBtu)									

1 of 24 - Clipboard
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EIA-923 Power Plant Operations Report Plant 6469 - Antelope Valley Cycle: 12/2008

Action Edit Query Block Record Field Window Help

SUBMIT | Data Accepted | Survey Submit 05/15/2009

Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors

U.S. Department of Energy
Energy Information Administration
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SCHEDULE 8. PART B. FINANCIAL INFORMATION

(Instructions for SCHEDULE 8 PART B are on page15.)

If actual data are not available, provide an estimated value.

Operation and Maintenance (O&M) Expenditures During Year (Thousand Dollars)

Type	(1) Fly Ash	(2) Bottom Ash	(3) Flue Gas Desulfurization	(4) Water Pollution Abatement	(5) Other Pollution Abatement	(6) Total (1+2+3+4+5)
Collection	1,616	853	9,997		2,451	14,917
Disposal						0
Other						0

Capital Expenditures for New Structures and Equipment During Year, Excluding Land and Interest Expense (Thousand Dollars)

Type	(7) Air Pollution Abatement	(8) Water Pollution Abatement	(9) Solid/Contained Waste	(10) Other Pollution Abatement
Amount	625		280	

Byproduct Sales Revenue During Year (Thousand Dollars)

Type	(11) Fly Ash	(12) Bottom Ash	(13) Fly and Bottom Ash Sold Intermingled	(14) Flue Gas Desulfurization Byproducts	(15) Other Byproduct Revenue	(16) Total (11+12+13+14+15)
Amount	33					33

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EIA-923 Power Plant Operations Report Plant: 6469 - Antelope Valley Cycle: 12/2008

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Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors

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

(Instructions for SCHEDULE 8 PART C are on page 16.)

Complete a separate row for each boiler.

Note: The Boiler ID must match the Boiler ID as reported on Form EIA-860, "Annual Electric Generator Report"

☐ No NOX Controls

Boiler ID	NOx Control In-Service (hours)	NOx Emission Rate (lbs/MMBtu) Entire Year	NOx Emission Rate (lbs/MMBtu) May through September
B1	7,526	.3600	.3600
B2	8,274	.3700	.3700

Add Equipment

To add a new Equipment ID not on the drop down list, click "Add Equipment" and a generic ID will be assigned and appear on your drop down list. Choose EIA001, EIA002, etc. for the new Equipment ID. EIA will contact you to update this generic ID to an actual ID.

3 of 24 - Clipboard
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EIA-923 Power Plant Operations Report Plant 6469 - Antelope Valley Cycle 12/2008

Action Edit Query Block Record Field Window Help

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Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors

U.S. Department of Energy
Energy Information Administration
Form EIA-923 (2008)

Power Plant Operations Report

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SCHEDULE 8. PART D. COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS

(Instructions for SCHEDULE 8 PART D are on page 16.)

Note: Cooling System ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."
Complete a separate row for each cooling system.

Cooling System ID	Status	Annual Amount of Chlorine added to Cooling Water (1000 lbs)	Average Annual Rate of Cooling Water (to nearest 0.1 ft3/sec)			Maximum Cooling Water Temperature at Intake (F)		Maximum Cooling Water Temperature at Discharge Outlet (F)	
			Withdrawal	Discharge	Consumption	Winter Peak Month	Summer Peak Month	Winter Peak Month	Summer Peak Month
CC1	OP	50.355	6.8	0	6.8	33.0	58.0		
CC2	OP	55.790	7.5	0	7.5	33.0	58.0		

Add Equipment

To add a new Equipment ID not on the drop down list, click "Add Equipment" and a generic ID will be assigned and appear on your drop down list.
Choose EIA001, EIA002, etc. for the new Equipment ID. EIA will contact you to update this generic ID to an actual ID.

4 of 24 - Clipboard
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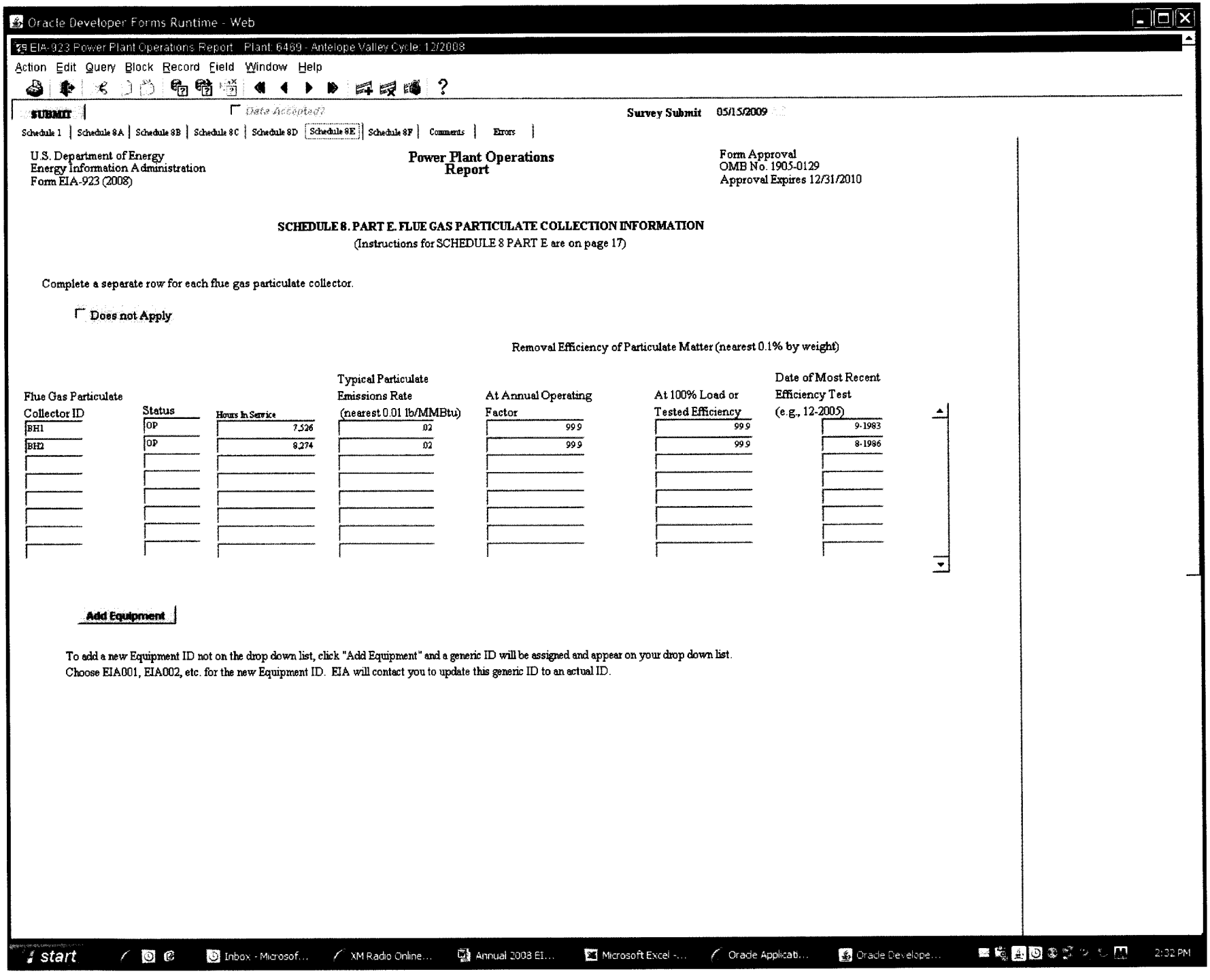
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EIA-923 Power Plant Operations Report Plant: 6469 - Antelope Valley Cycle: 12/2008
Action Edit Query Block Record Field Window Help
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Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors
U.S. Department of Energy
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SCHEDULE 8. PART E. FLUE GAS PARTICULATE COLLECTION INFORMATION
(Instructions for SCHEDULE 8 PART E are on page 17)
Complete a separate row for each flue gas particulate collector.
Does not Apply
Removal Efficiency of Particulate Matter (nearest 0.1% by weight)
Flue Gas Particulate Collector ID
Status
Hours In Service
Typical Particulate Emissions Rate (nearest 0.01 lb/MMBtu)
At Annual Operating Factor
At 100% Load or Tested Efficiency
Date of Most Recent Efficiency Test (e.g., 12-2005)
BH1 OP 7,526 .02 99.9 99.9 9-1983
BH2 OP 8,274 .02 99.9 99.9 8-1986
Add Equipment
To add a new Equipment ID not on the drop down list, click "Add Equipment" and a generic ID will be assigned and appear on your drop down list.
Choose EIA001, EIA002, etc. for the new Equipment ID. EIA will contact you to update this generic ID to an actual ID.
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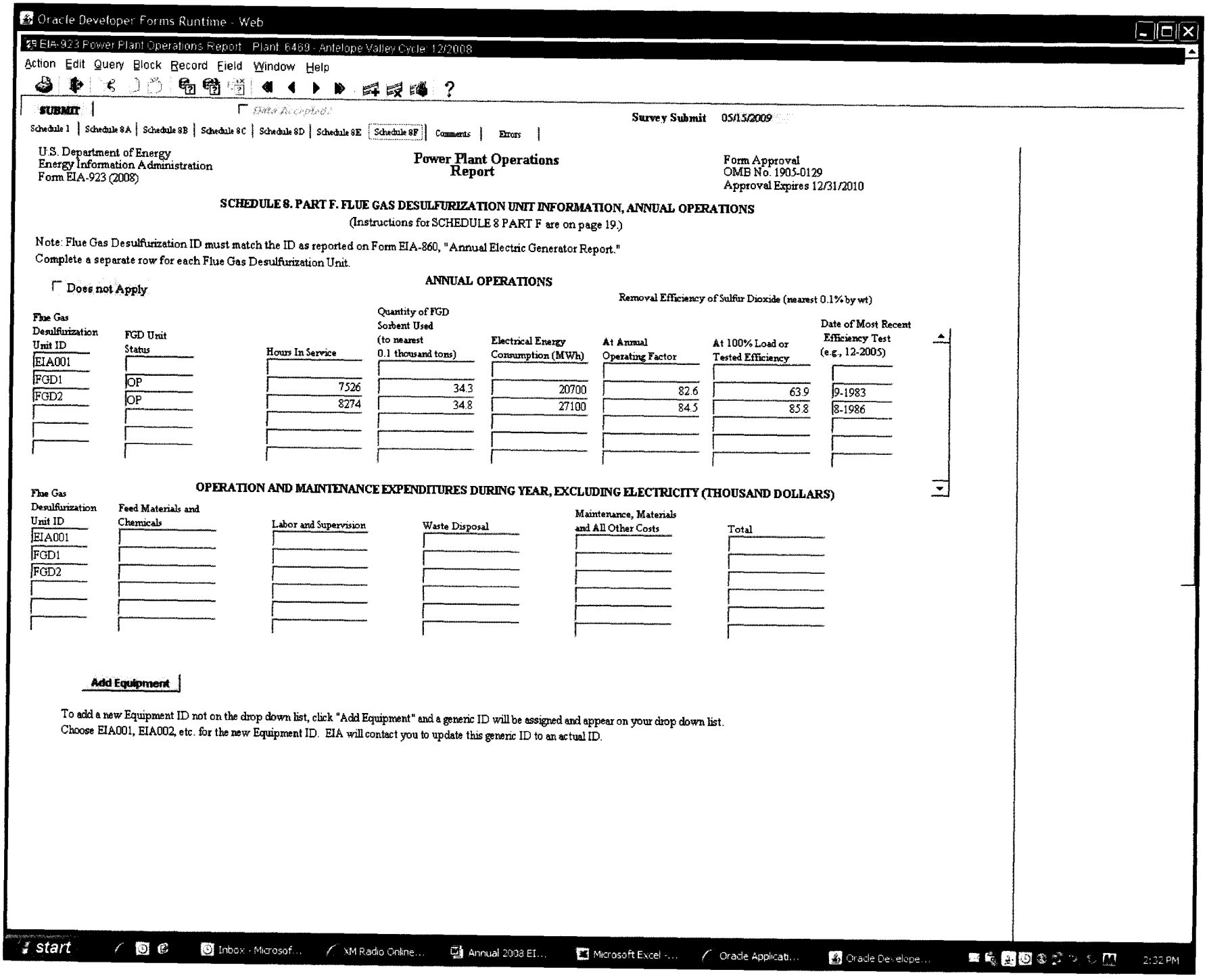
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EIA-923 Power Plant Operations Report Plant 6469 - Antelope Valley Cycle: 12/2008

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SUBMIT | Data Accepted | Survey Submit 05/15/2009

Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors

U.S. Department of Energy
Energy Information Administration
Form EIA-923 (2008)

Power Plant Operations Report

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

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

(Instructions for SCHEDULE 8 PART F are on page 19.)

Note: Flue Gas Desulfurization ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."
Complete a separate row for each Flue Gas Desulfurization Unit.

ANNUAL OPERATIONS

☐ Does not Apply

Flue Gas Desulfurization Unit ID	FGD Unit Status	Hours In Service	Quantity of FGD Sorbent Used (to nearest 0.1 thousand tons)	Removal Efficiency of Sulfur Dioxide (nearest 0.1% by wt)			
				Electrical Energy Consumption (MWh)	At Annual Operating Factor	At 100% Load or Tested Efficiency	Date of Most Recent Efficiency Test (e.g., 12-2005)
EIA001							
FGD1	OP	7526	34.3	20700	82.6	63.9	9-1983
FGD2	OP	8274	34.8	27100	84.5	85.8	8-1986

OPERATION AND MAINTENANCE EXPENDITURES DURING YEAR, EXCLUDING ELECTRICITY (THOUSAND DOLLARS)

Flue Gas Desulfurization Unit ID	Feed Materials and Chemicals	Labor and Supervision	Waste Disposal	Maintenance, Materials and All Other Costs	Total
EIA001					
FGD1					
FGD2					

Add Equipment

To add a new Equipment ID not on the drop down list, click "Add Equipment" and a generic ID will be assigned and appear on your drop down list.
Choose EIA001, EIA002, etc. for the new Equipment ID. EIA will contact you to update this generic ID to an actual ID.

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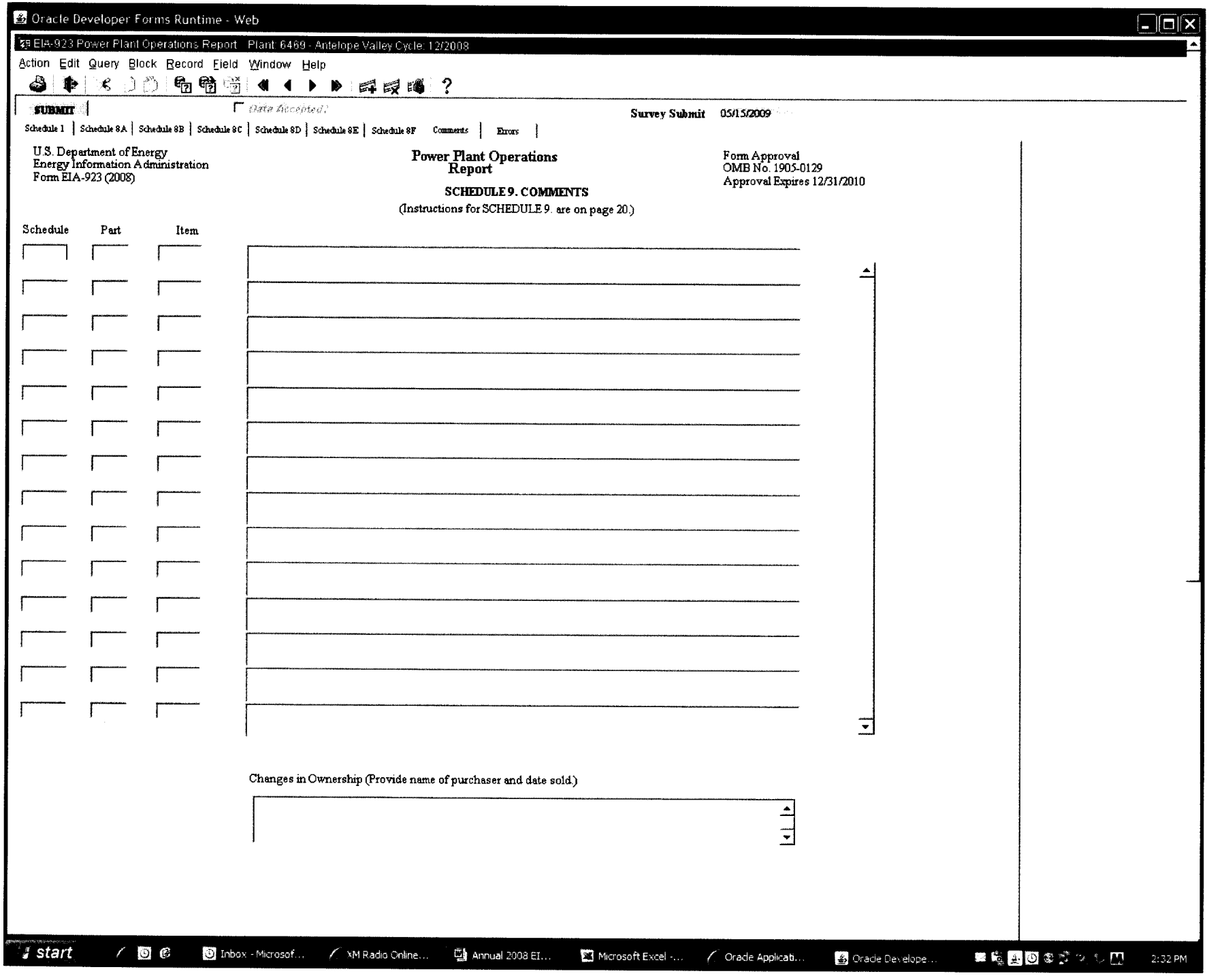
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Date Accepted:
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U.S. Department of Energy
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Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010
SCHEDULE 9. COMMENTS
(Instructions for SCHEDULE 9. are on page 20.)
Schedule
Part
Item
Changes in Ownership (Provide name of purchaser and date sold.)
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Oracle Applicati...
Oracle Develope...
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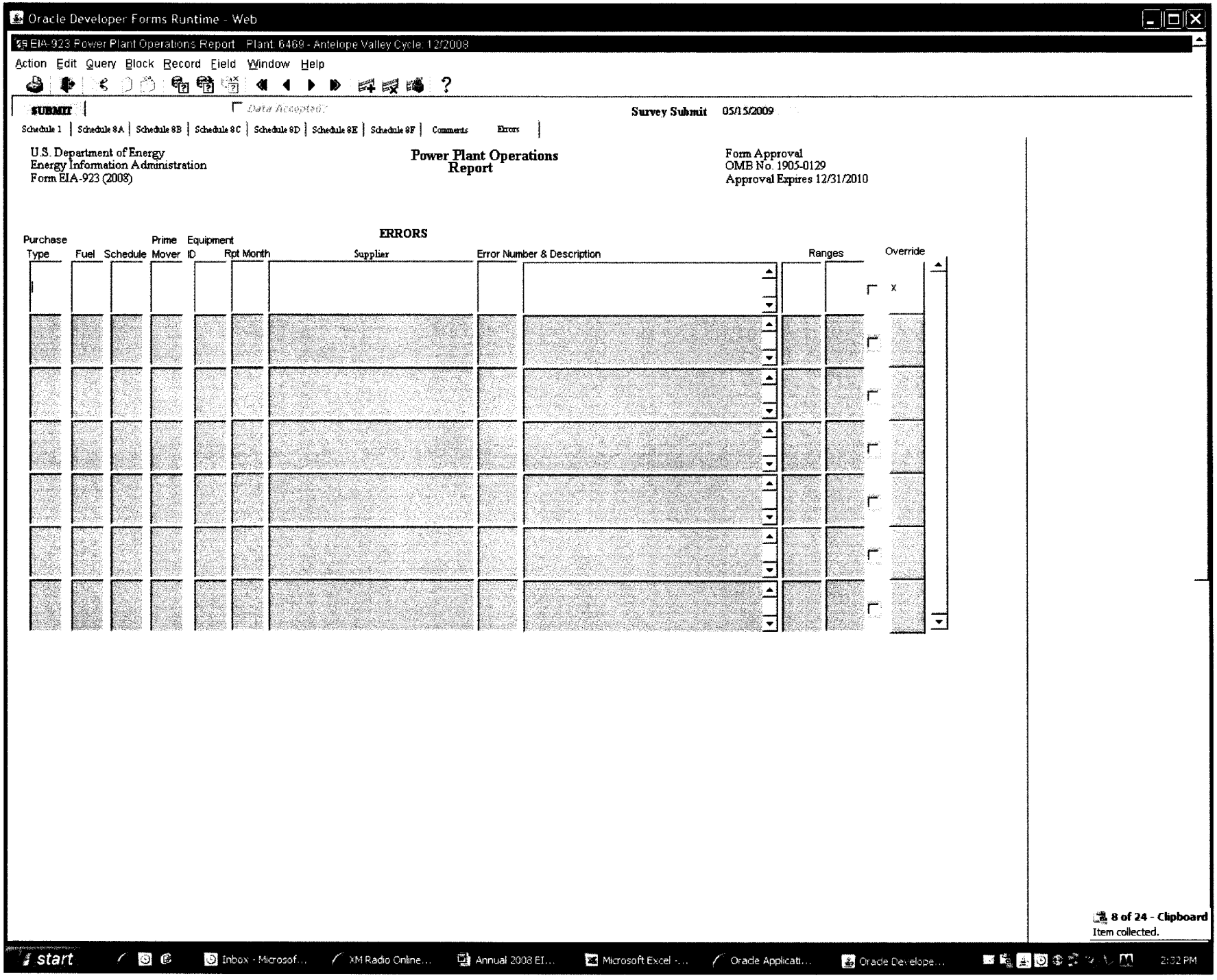

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Project

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EIA-923 Power Plant Operations Report Plant 2817 - Leland Olds Cycle 12/2008

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SUBMIT | Date Accepted: 05-15-2009 02:50 PM F923ADMIN **Survey Submit** 05/15/2009

Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors

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SCHEDULE 1. IDENTIFICATION

(Instructions for SCHEDULE 1 are on page 2)

Log Date/User:
15-MAY-2009
F860C14313

Survey Contact

First Name: Joseph Last Name: Leingang
Title: Director of Fuels
Address: 1717 E. Interstate Avenue
City: Bismarck State: ND Zip: 58503
EMAIL: jleingang@bepc.com
Telephone: 701-557-5648 Extension: FAX: 701-255-5144

Supervisor of Contact Person for Survey

First Name: Terry Last Name: Retterath
Title: Industrial Engineer III
Address: 1717 E. Interstate Avenue
City: Bismarck State: ND Zip: 58503
EMAIL: tlrat@bepc.com
Telephone: 701-223-0441 Extension: FAX: 701-255-5144

Report For

Company Name: Basin Electric Power Coop
Plant Name: Leland Olds
Plant ID: 2817 PLANT_COUNTY: Mercer
Plant Address: Hwy 200
Plant City: Stanton State: ND

CHP ( ) Yes ( ) No
Regulated ( ) Yes ( ) No

For questions related to e-file system: CNEAFHelpcenter@eia.doe.gov 202-586-9595

For questions about the data requested:

Schedulex 1 and 4: Chris Cassar	christopher.cassar@eia.doe.gov	202-586-5448
Schedule 2: Becky McNerney	rebecca.mcnerney@eia.doe.gov	202-586-4509
Schedules 3 & 5: Ron Hankey	rhankey@eia.doe.gov	202-586-2630
Schedules 6 & 7: Marie Rinkoski Spangler	marie.rinkoski-spangler@eia.doe.gov	202-586-2446

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Exhibit 1

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Energy Information Administration
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Power Plant Operations Report

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SCHEDULE 8. ANNUAL ENVIRONMENTAL INFORMATION

SCHEDULE 8, PARTS A through F are filed annually and must be reported by steam-electric organic-fueled power plants with a total steam turbine capacity of 100 megawatts and above (only plants that reported boiler-level consumption on SCHEDULE 3, Part A.). All steam-electric organic-fueled power plants with a total steam turbine capacity of 10 megawatts and above are responsible for filing Schedule 8, Parts C, E, and F. Annual data are due by March 30 following the reporting year.

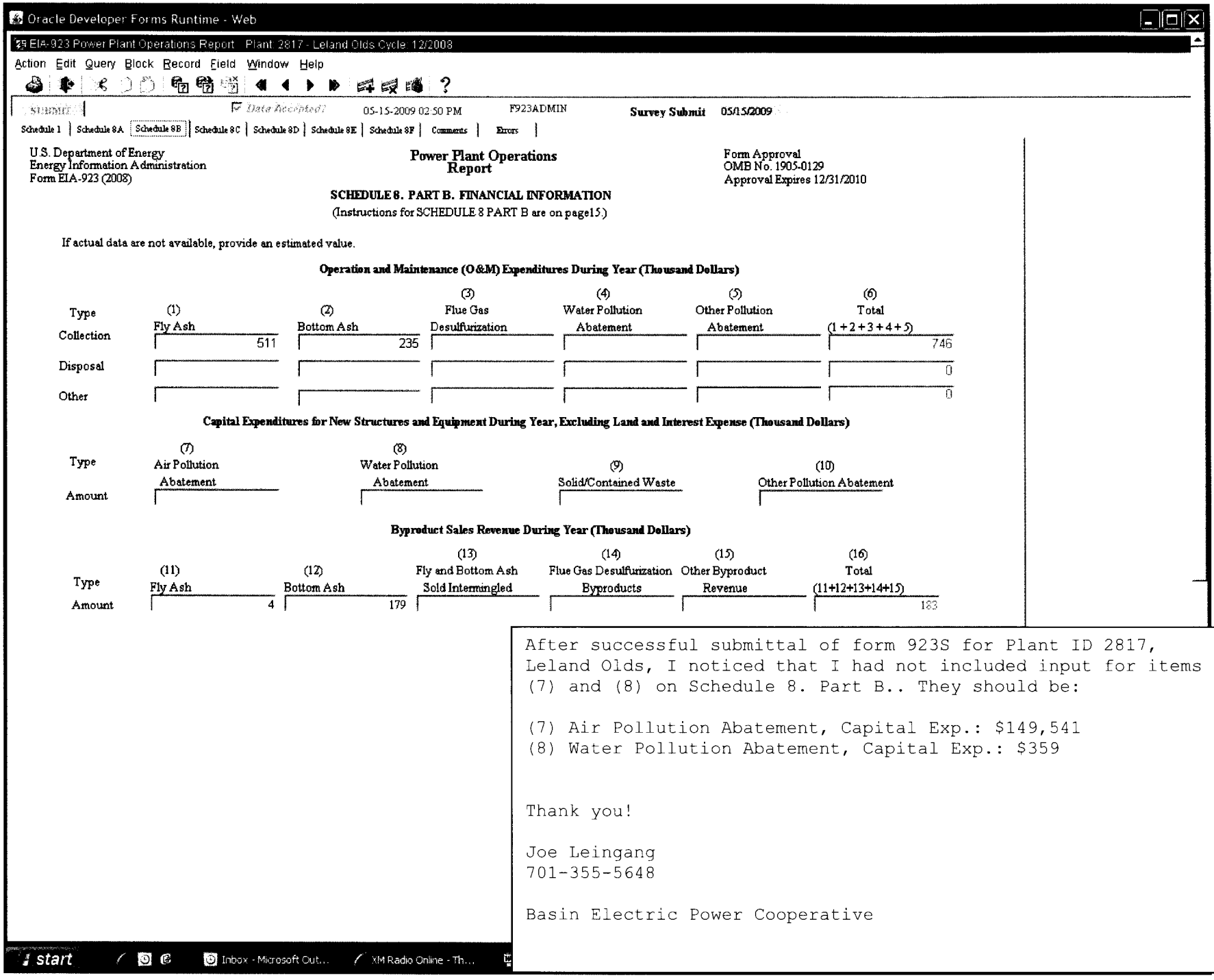
SCHEDULE 8. PART A. ANNUAL BYPRODUCT DISPOSITION

(Instructions for SCHEDULE 8 PART A are on page 14)

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

☐ NO BYPRODUCTS

	Disposal			Sale or Beneficial Use			Storage		
Byproduct	On-Site Landfill	On-site Ponds	Disposal Off-site	Sold	Used On-site	Used Off-site	Stored On-site	Stored Off-site	Total
Fly ash from standard boiler/PCD units			137.0	4.0					141.0
Fly ash from units with dry FGD									
Fly ash from FBC units									
Bottom ash from standard boiler units		158.5		57.8					216.3
Bottom (bed) ash from FBC units									
FGD Gypsum									
Other FGD byproducts									
Ash from coal gasification (IGCC) units									
Other (specify via footnote on Schedule 9)									
Steam Sales (MMBtu)									



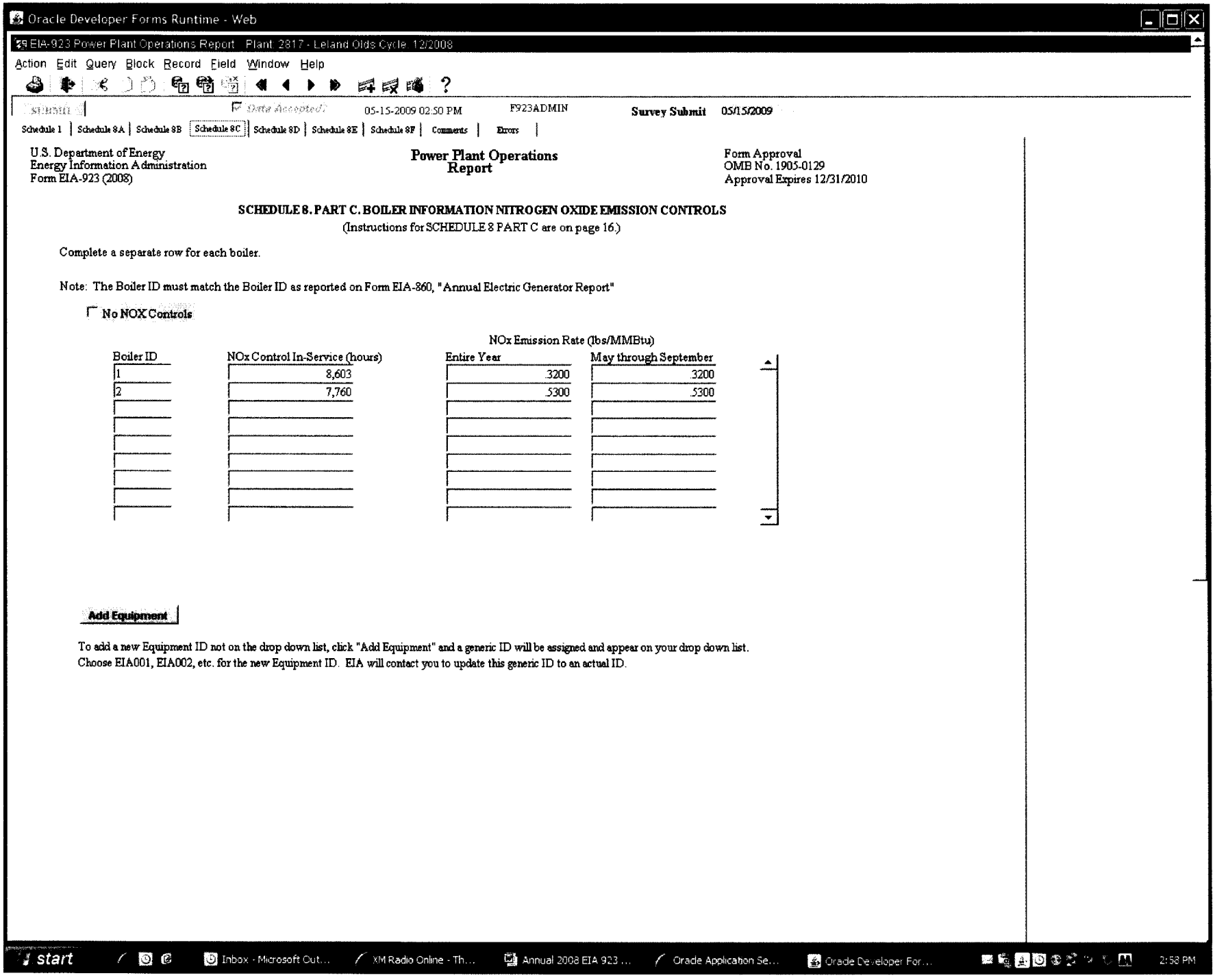
After successful submittal of form 923S for Plant ID 2817, Leland Olds, I noticed that I had not included input for items (7) and (8) on Schedule 8. Part B.. They should be:

(7) Air Pollution Abatement, Capital Exp.: $149,541
(8) Water Pollution Abatement, Capital Exp.: $359

Thank you!

Joe Leingang
701-355-5648

Basin Electric Power Cooperative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EIA-923 Power Plant Operations Report Plant 2817 - Leland Olds Cycle 12/2008

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

(Instructions for SCHEDULE 8 PART C are on page 16.)

Complete a separate row for each boiler.

Note: The Boiler ID must match the Boiler ID as reported on Form EIA-860, "Annual Electric Generator Report"

☐ No NOX Controls

Boiler ID	NOx Control In-Service (hours)	NOx Emission Rate (lbs/MMBtu) Entire Year	May through September
1	8,603	.3200	.3200
2	7,760	.5300	.5300

Add Equipment

To add a new Equipment ID not on the drop down list, click "Add Equipment" and a generic ID will be assigned and appear on your drop down list. Choose EIA001, EIA002, etc. for the new Equipment ID. EIA will contact you to update this generic ID to an actual ID.

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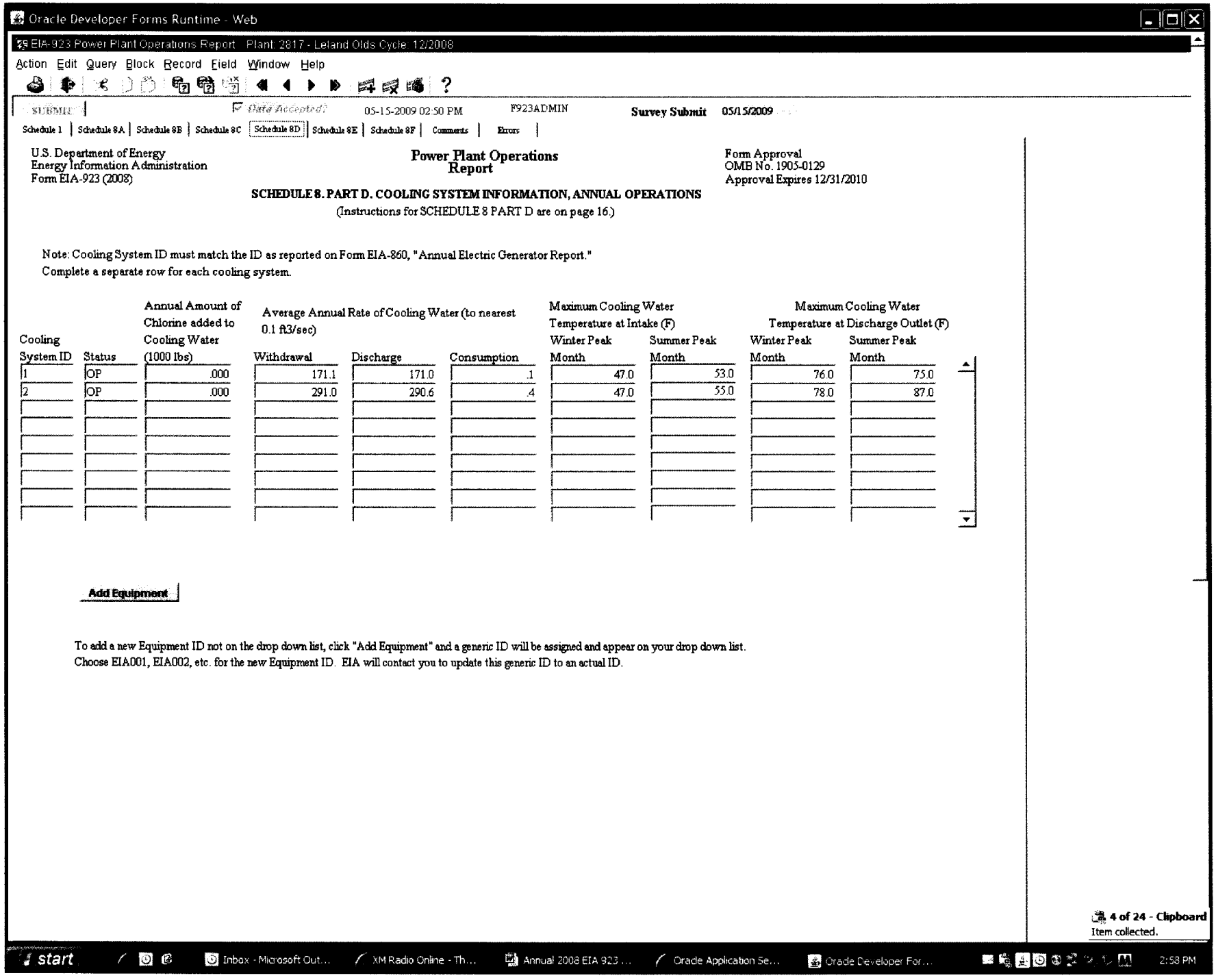
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EIA-923 Power Plant Operations Report Plant 2817 - Leland Olds Cycle 12/2008
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Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors
U.S. Department of Energy
Energy Information Administration
Form EIA-923 (2008)
Power Plant Operations Report
Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010
SCHEDULE 8. PART D. COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS
(Instructions for SCHEDULE 8 PART D are on page 16.)
Note: Cooling System ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."
Complete a separate row for each cooling system.
Cooling System ID
Status
Annual Amount of Chlorine added to Cooling Water (1000 lbs)
Average Annual Rate of Cooling Water (to nearest 0.1 ft3/sec)
Withdrawal
Discharge
Consumption
Maximum Cooling Water Temperature at Intake (F)
Winter Peak Month
Summer Peak Month
Maximum Cooling Water Temperature at Discharge Outlet (F)
Winter Peak Month
Summer Peak Month
1 OP .000 171.1 171.0 .1 47.0 53.0 76.0 75.0
2 OP .000 291.0 290.6 .4 47.0 55.0 78.0 87.0
Add Equipment
To add a new Equipment ID not on the drop down list, click "Add Equipment" and a generic ID will be assigned and appear on your drop down list.
Choose EIA001, EIA002, etc. for the new Equipment ID. EIA will contact you to update this generic ID to an actual ID.
4 of 24 - Clipboard
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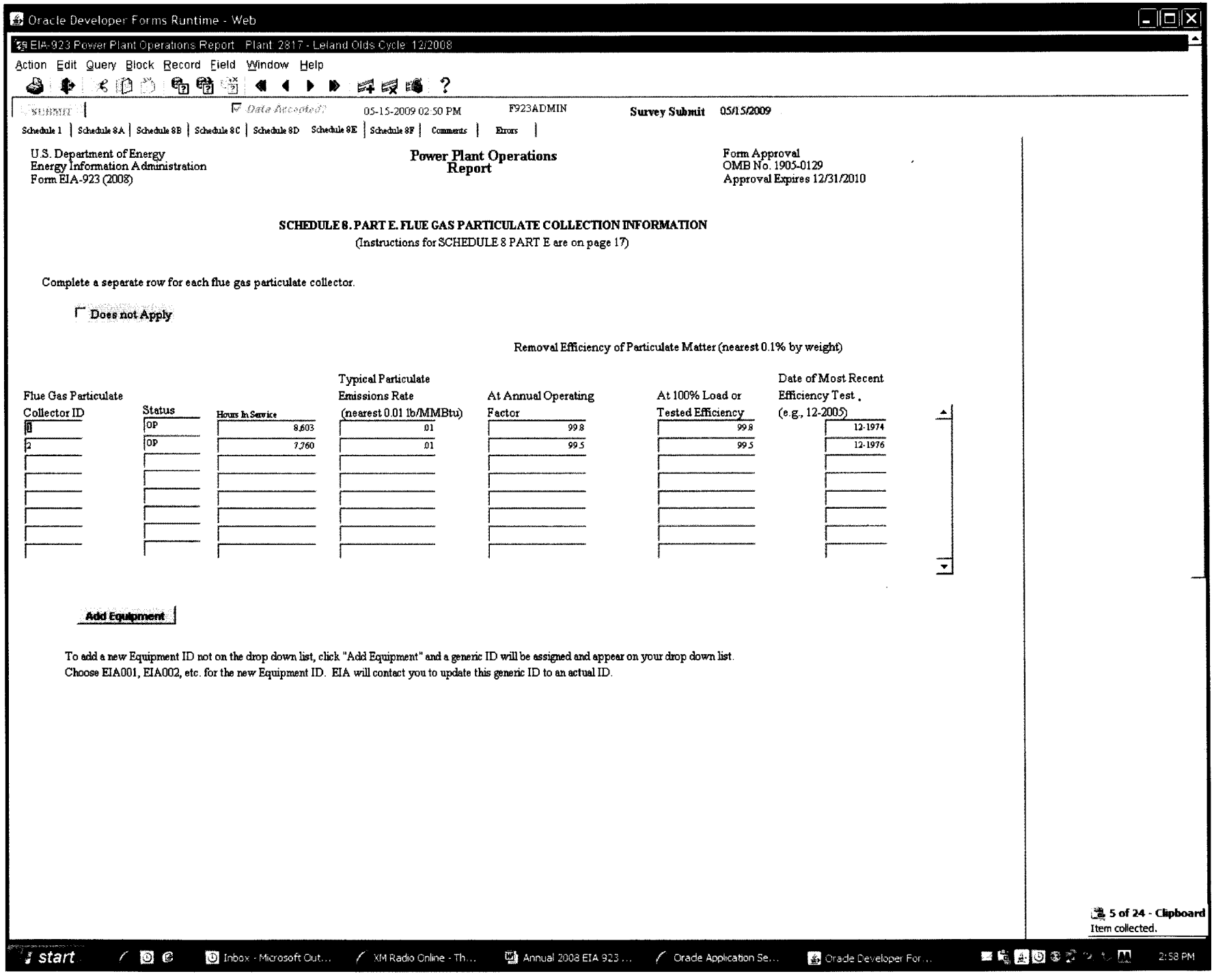
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Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors
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SCHEDULE 8. PART E. FLUE GAS PARTICULATE COLLECTION INFORMATION
(Instructions for SCHEDULE 8 PART E are on page 17)
Complete a separate row for each flue gas particulate collector.
Does not Apply
Removal Efficiency of Particulate Matter (nearest 0.1% by weight)
Flue Gas Particulate Collector ID
Status
Hours In Service
Typical Particulate Emissions Rate (nearest 0.01 lb/MMBtu)
At Annual Operating Factor
At 100% Load or Tested Efficiency
Date of Most Recent Efficiency Test (e.g., 12-2005)
1 OP 8,603 .01 99.8 99.8 12-1974
2 OP 7,760 .01 99.5 99.5 12-1976
Add Equipment
To add a new Equipment ID not on the drop down list, click "Add Equipment" and a generic ID will be assigned and appear on your drop down list.
Choose EIA001, EIA002, etc. for the new Equipment ID. EIA will contact you to update this generic ID to an actual ID.
5 of 24 - Clipboard
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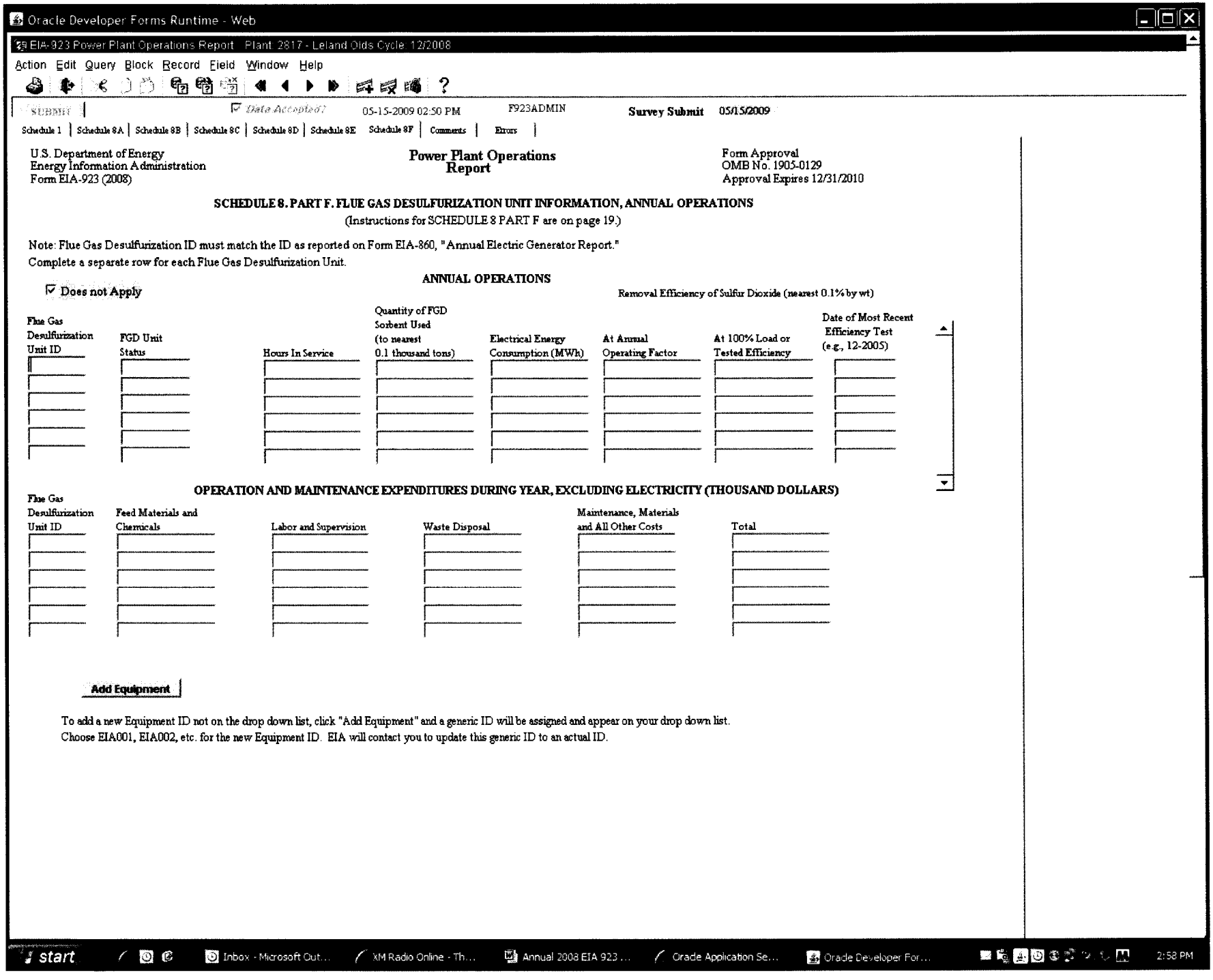
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Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors
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SCHEDULE 8. PART F. FLUE GAS DESULFURIZATION UNIT INFORMATION, ANNUAL OPERATIONS
(Instructions for SCHEDULE 8 PART F are on page 19.)
Note: Flue Gas Desulfurization ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."
Complete a separate row for each Flue Gas Desulfurization Unit.
ANNUAL OPERATIONS
Does not Apply
Removal Efficiency of Sulfur Dioxide (nearest 0.1% by wt)
Flue Gas Desulfurization Unit ID
FGD Unit Status
Hours In Service
Quantity of FGD Sorbent Used (to nearest 0.1 thousand tons)
Electrical Energy Consumption (MWh)
At Annual Operating Factor
At 100% Load or Tested Efficiency
Date of Most Recent Efficiency Test (e.g., 12-2005)
OPERATION AND MAINTENANCE EXPENDITURES DURING YEAR, EXCLUDING ELECTRICITY (THOUSAND DOLLARS)
Flue Gas Desulfurization Unit ID
Feed Materials and Chemicals
Labor and Supervision
Waste Disposal
Maintenance, Materials and All Other Costs
Total
Add Equipment
To add a new Equipment ID not on the drop down list, click "Add Equipment" and a generic ID will be assigned and appear on your drop down list.
Choose EIA001, EIA002, etc. for the new Equipment ID. EIA will contact you to update this generic ID to an actual ID.
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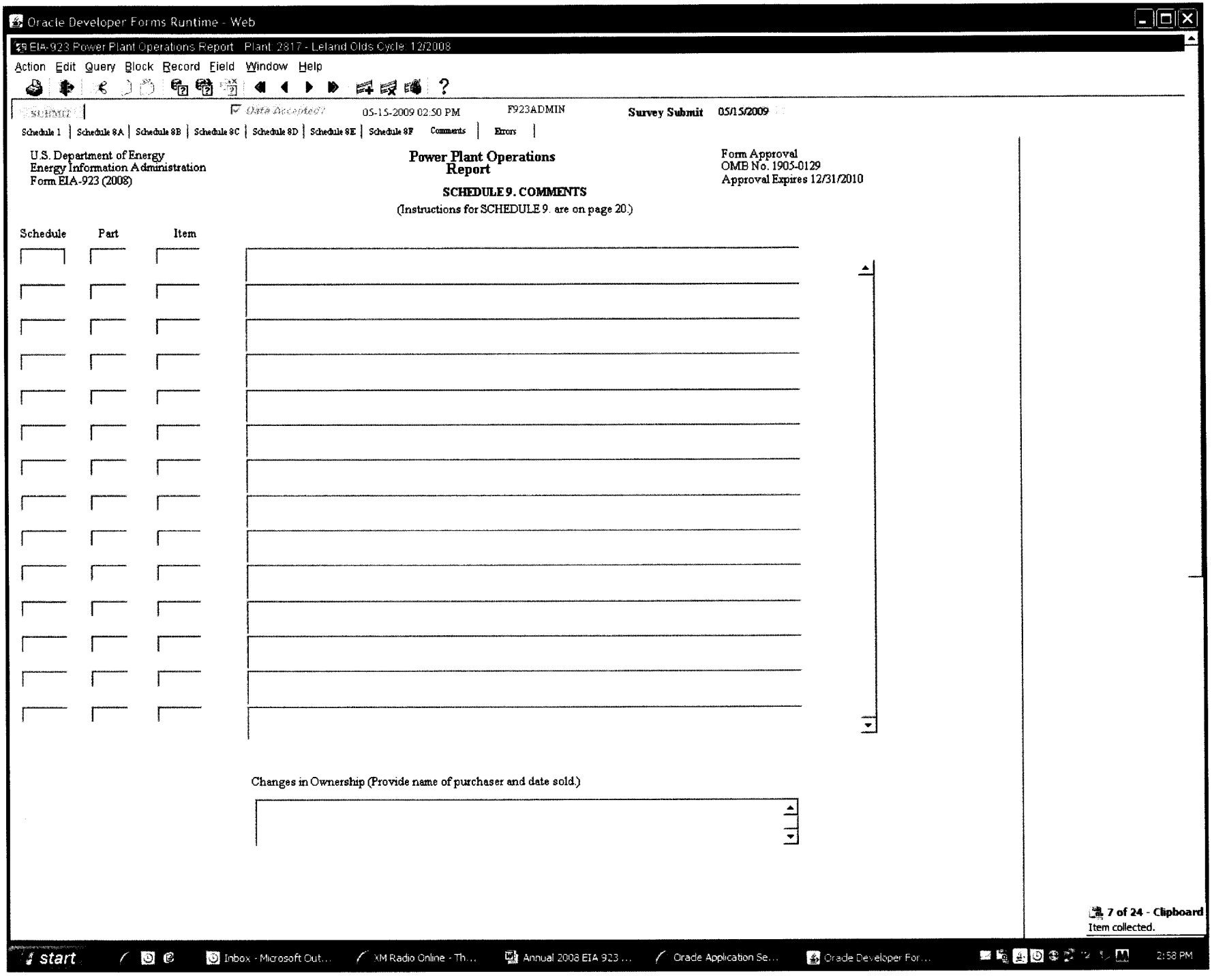
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Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors
U.S. Department of Energy
Energy Information Administration
Form EIA-923 (2008)
Power Plant Operations Report
Form Approval
OMB No. 1905-0129
Approval Expires 12/31/2010
SCHEDULE 9. COMMENTS
(Instructions for SCHEDULE 9. are on page 20.)
Schedule
Part
Item
Changes in Ownership (Provide name of purchaser and date sold.)
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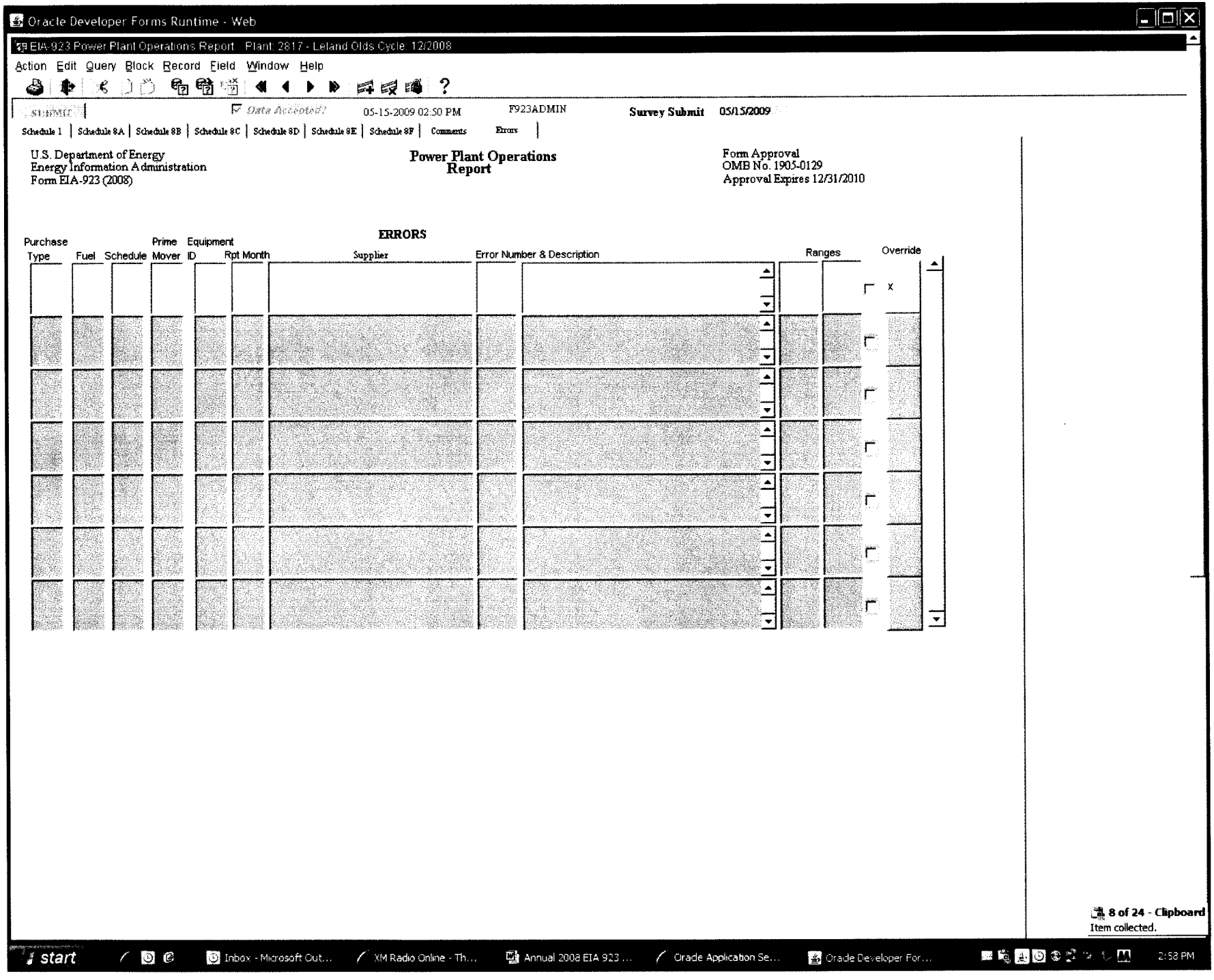
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EIA-923 Power Plant Operations Report Plant: 2817 - Leland Olds Cycle: 12/2008
Action Edit Query Block Record Field Window Help
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Survey Submit 05/15/2009
Schedule 1 | Schedule 8A | Schedule 8B | Schedule 8C | Schedule 8D | Schedule 8E | Schedule 8F | Comments | Errors
U.S. Department of Energy
Energy Information Administration
Form EIA-923 (2008)
Power Plant Operations Report
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Approval Expires 12/31/2010
ERRORS
Purchase Type
Fuel
Schedule
Prime Mover
Equipment ID
Rpt Month
Supplier
Error Number & Description
Ranges
Override
X
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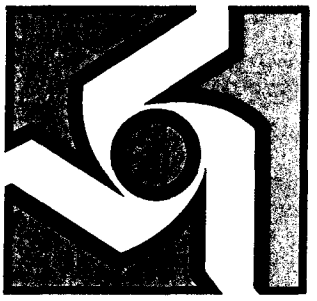

BASIN ELECTRIC
POWER COOPERATIVE

NORTH DAKOTA TEN-YEAR PLAN

2009

TABLE OF CONTENTS

INTRODUCTION

Basin Electric Power Cooperative is a regional rural electric wholesale power supplier headquartered at 1717 East Interstate Avenue, Bismarck, North Dakota. The region served by Basin Electric includes all or portions of nine states encompassing Montana, Wyoming, Colorado, North Dakota, South Dakota, Nebraska, Minnesota, Iowa and New Mexico. Basin Electric owns and operates or otherwise jointly shares energy conversion and transmission facilities throughout this region. Basin Electric has five subsidiaries, Basin Cooperative Services, Dakota Gasification Company, Dakota Coal Company, Montana Limestone Company, and Basin Telecommunications Inc. A ten-year plan for Dakota Gasification Company will be submitted under separate cover by Dakota Gasification Company.

SECTION A: EXISTING ENERGY CONVERSION FACILITIES

Basin Electric owns all or portions of nine existing energy conversion facilities. Three of these facilities are in North Dakota; the Antelope Valley Station near Beulah, North Dakota; the Leland Olds Station at Stanton, North Dakota; and the Minot Wind Project located near Minot, North Dakota. Other existing energy conversion facilities outside of North Dakota are the Laramie River Station at Wheatland, Wyoming; the Spirit Mound Station at Vermillion, South Dakota; the Chamberlain Wind Project at Chamberlain, South Dakota; Wisdom Unit 2 at Spencer, Iowa; the Wyoming Distributed Generation in Wyoming; and the Groton Generation Station near Groton, South Dakota.

Basin Electric purchases all or portions of the output from Waste Heat Recovery Units located near St. Anthony, North Dakota; Wishek, North Dakota; Killdeer, North Dakota and three other Heat Recovery Units located in South Dakota; North Dakota I Wind Energy Center near Edgeley and Kulm, North Dakota; the Wilton Wind Energy Center near Wilton, North Dakota; the South Dakota Wind Energy Center near Highmore, South Dakota; the Rosebud Sioux Indian Reservation Wind Turbine; the Pipestone, Minnesota School District Wind Turbine; a portion of Unit #4 of the George Neal Station near Salix, Iowa; and the City of Madison, South Dakota Diesel Generators.

The most recent Energy Information Administration (EIA) Form No. 923 for the Antelope Valley Station and the Leland Olds Station are included as Exhibit 1.

SECTION B: ENERGY CONVERSION FACILITIES UNDER CONSTRUCTION

Basin Electric should begin construction of the Culbertson Generation Station (91 MW) near Culbertson, MT in the summer of 2009 with commercial operation being spring, 2010. Basin Electric is developing a 390 MW (net) coal fired power plant located 10 miles north of Gillette, WY. This project is named "The Dry Fork Station" and the projected in-service date is 2011. Basin Electric is contracting for two more Waste Heat Recovery units to be completed in late 2009 located near Culbertson, MT and Garvin, MN.

SECTION C: PROPOSED ENERGY CONVERSION FACILITIES ON WHICH CONSTRUCTION IS INTENDED WITHIN THE ENSUING FIVE YEARS

Basin Electric is developing a 300 MW combined-cycle power plant located near White, SD, which is scheduled to be in-service the spring of 2012. This power plant is named "Deer Creek Station". Basin Electric is developing a 115.5 MW wind project located near Minot, ND named "Prairie Winds ND1" to be on-line late 2009 or early 2010. Basin Electric is also developing a 150 MW wind project located near White Lake, SD named "Prairie Winds SD1" to be on-line late 2010 or early 2011. Basin Electric is also expanding the existing Minot Wind Project for an additional 4.5 MW to be on-line late 2009 or early 2010. Basin Electric has committed to purchase the output from the Wilton Wind Energy Center Phase II to be completed late 2009 or early 2010. This project is to be 49.5 MW in size.

SECTION D: PROPOSED ENERGY CONVERSION FACILITIES DURING THE NEXT TEN-YEAR TIME PERIOD

Basin Electric is evaluating the development of new generating resources (coal, gas, and wind) in the Dakotas to meet Basin Electric's forecasted load growth.

SECTION E: EXISTING TRANSMISSION FACILITIES (ELECTRIC)

Basin Electric's transmission and related substation facilities in North Dakota and their associated commercial dates are listed in the following table:

a. Transmission Lines

LINES - BY VOLTAGE	COMMERCIAL IN-SERVICE DATE
69 kV Lines	
Leland Olds - Basin Electric Sub	01/09/66
115 kV Lines	
Basin Electric Sub - Stanton Tap	01/09/66
Logan-Kenmare Line	04/01/79
Logan-Mallard Line	04/01/79
Charlie Creek-Squaw Gap	12/31/82
Squaw Gap-Richland	12/31/82
230 kV Lines	
Leland Olds #1-Washburn Double Circuit	01/09/66
Leland Olds-Logan Line	03/31/80

Leland Olds #2 - Basin Electric Sub	12/15/75
Logan-Tioga	05/01/82
Tioga-Canadian Border (Estevan)	05/01/82

345 kV Lines

Leland Olds-Groton-Watertown	12/15/75
Leland Olds-Ft. Thompson (SD) Line	12/15/75
Leland Olds-AVS North Line	11/30/83
Leland Olds-AVS South Line	07/01/84
Antelope Valley Station-Charlie Creek	11/30/83

500 kV Lines

Antelope Valley Station-Huron, SD (345 kV operation)	07/01/84

b. Substations

115 kV Wm. J. Neal Station Switchyard	04/01/52
230 kV Leland Olds Switchyard	01/09/66
230 kV Washburn, ND Switchyard	01/09/66
115 kV Stanton Tap Structure	01/09/66
230/115/69 kV BEPC Substation	01/09/66
345/230 kV Leland Olds Switchyard Addition	12/15/75
230/115 kV Logan Substation	04/01/79
230/115 kV Dickinson, ND Substation	12/15/75
345/115 kV Charlie Creek Substation	11/30/83
345 kV Antelope Valley Station Switchyard	11/30/83

c. Basin Electric does not anticipate retiring any of its existing transmission facilities within the next ten (10) years.

SECTION F: EXISTING TRANSMISSION FACILITIES (PIPELINES)

Pipeline transmission facilities utilized by Basin Electric are water supply lines to the Leland Olds Station, Antelope Valley Station, and a 12 mile long natural gas fuel supply pipeline associated with the Groton Station. The Leland Olds water line is approximately one-quarter mile in length and is located on plant site property owned by Basin Electric.

The water supply line for the Antelope Valley Station is a forty-two inch diameter steel-lined concrete pipe of approximately nine miles in length. The line runs directly north from the plant site to an intake structure and pumping station located on Lake Sakakawea. This line was designed and constructed as a joint use facility for Basin Electric and the adjacent Great Plains Synfuels Plant. The State of North Dakota's Southwest water pipeline uses the same intake structure and pumping station as the AVS pipeline. The Basin Electric line was designed to have a maximum operating

pressure of 160 PSI gauge and a flow rate of 30,000 GPM. The pipeline was constructed, with a minimum earth cover of 84 inches. The pipeline was placed in-service in 1984. A new parallel pipeline was installed in 2006, because of recurring failures of the existing line. The new line is steel pipe with the same design parameters. The old line will be maintained as a back-up facility. None of Basin Electric's pipeline facilities are projected for retirement within the next ten-year period.

SECTION G: PROPOSED TRANSMISSION FACILITIES ON WHICH CONSTRUCTION IS INTENDED WITHIN THE ENSUING FIVE YEARS (ELECTRIC)

Basin Electric is developing a Belfield-Rhame 230 kV transmission line. The line will be about 70 miles long and is required to support southwest North Dakota electrical load growth. The projected in-service date is late 2009. Basin Electric is developing a Williston-Tioga 230 kV transmission line. This 50 mile long line is needed to serve northwest North Dakota load growth. The projected in-service date is 2010. Basin Electric is also developing the Hughes transmission project which consists of 130 miles of 230 kV line located in northeastern Wyoming. The projected in-service date is 2009.

SECTION H: PROPOSED TRANSMISSION FACILITIES ON WHICH CONSTRUCTION IS INTENDED WITHIN THE ENSUING FIVE YEARS (PIPELINE)

No new pipeline construction is expected to occur within the ensuing five year period.

SECTION I: PROPOSED TRANSMISSION FACILITIES DURING THE NEXT TEN-YEAR TIME PERIOD (ELECTRIC AND PIPELINE)

Results of the resource development of new generating resources (refer to section D) will identify transmission improvements necessary to support the transmission service required by the new resources. Transmission studies are underway to analyze the required transmission improvements to accommodate network load growth. Results of these studies may indicate the need for additional load serving transmission facilities.

SECTION J: REGIONAL COORDINATION

Mid-West Electric Consumers Association

Basin Electric Power Cooperative is a member of the Mid-West Electric Consumers Association (Mid-West). Mid-West, which was founded in 1958, is a regional coalition of consumer-owned electric utilities that purchase power from the federal multi-purpose projects in the Missouri River Basin. Mid-West's Water & Power Marketing Committee meets throughout the year to discuss and review planned additions of Mid-West member utilities.

Mid-Continent Area Power Pool

Basin Electric is a member of the Mid-Continent Area Power Pool (MAPP). Basin Electric participates on various committees which review the transmission adequacy and plans of area utilities as a function of the Mid-Continent Area Power Pool.

The Transmission Planning Subcommittee (TPS), which coordinates MAPP's ten-year plan, has formed four sub-regional working groups whose primary purpose is to perform coordinated transmission planning. These sub-regional planning groups are:

Northern MAPP
Missouri Basin
Nebraska
Iowa Transmission Working Group

The Missouri Basin Sub-Regional Planning Group includes utilities in the North and South Dakota area. The Northern MAPP Sub-Regional Planning Group includes utilities in northeastern North Dakota and western Minnesota. In compliance with NERC planning standards, the working groups are required to develop a coordinated ten-year plan for MAPP every two years for their specific regions. These ten-year plans evaluate the adequacy of existing interconnected systems to support load growth and provide an indication of the ability of the system to meet regional reliability criteria.

Basin Electric also participates on the Design Review Subcommittee which ensures that long term reliability of the MAPP system is not adversely affected by changes to generation and transmission facilities. Many other MAPP committees, in which Basin Electric is involved, also review the transmission, generation, and operations of the MAPP interconnected system.

Coordination with Area Utilities

Western Area Power Administration

Basin Electric coordinates regional power supplies with the Western Area Power Administration. An example is the Miles City, Montana DC converter station. The station was built by the Western Area Power Administration (WAPA) to transfer electric power across the east/west transmission separation. Basin Electric has financed 40% of the cost of the station and contracted with WAPA for 40% of the capacity of the 200 MW station. This station enables Basin Electric to serve Central Montana Electric Power Cooperative, a Class A member with electrical loads primarily located west of the east-west separation.

Montana-Dakota Utilities Co.

Member cooperatives of Basin Electric have a common service area in the western half of North Dakota with Montana-Dakota Utilities Co. (MDU). To avoid duplication of transmission facilities an agreement was entered into on January 1, 1972, providing for

joint use and construction of transmission facilities. This agreement provides for studies to be performed every two years to determine what additional transmission will be required to meet area load growth. This agreement calls for the sharing of facilities on the basis of each utility's respective load projections.

The Tioga-Saskatchewan 230 kV line constructed by Basin Electric and Saskatchewan Power Corporation allows the purchase and sale of power among regional utilities. This line was reviewed with MDU and routed so that it could be tapped for future use by MDU and the member systems of Basin Electric. A result of this review was the Tioga 230/115 kV substation constructed by MDU and shared by Basin Electric.

The Miles City-Hettinger-New Underwood, SD, 230 kV line is another example of joint planning. This line was jointly planned and constructed with WAPA, MDU and Basin Electric. Basin Electric and MDU each have 25% capacity rights and WAPA owns and has capacity rights to 50% of the line.

Integrated System Transmission Tariff

Basin Electric Power Cooperative, WAPA and Heartland Consumers Power District have combined their transmission facilities to create the Integrated System (IS) transmission tariff. This tariff was created to facilitate the use of the transmission facilities of Basin Electric Power Cooperative, WAPA and Heartland Consumers Power District by other utilities required under FERC Order 888.

SECTION K: ENVIRONMENTAL INFORMATION

The primary obligation of Basin Electric is to provide an adequate wholesale supply of dependable, low-cost electric power to its member systems, consistent with the public interest. In conjunction with this, Basin Electric endeavors to maximize the socio-economic benefits associated with electrical generation and transmission projects and to minimize negative impacts associated with these projects. This is particularly true with respect to protecting the agricultural lifestyle and productivity of this region.

The Cooperative remains committed to preserving and enhancing the ecological balance of this region for the benefit of future generations. It is the policy of Basin Electric that environmental impacts be monitored and steps taken to mitigate and alleviate adverse effects. Basin Electric has instituted a variety of programs designed to maximize the most efficient use of energy and to benefit the human, agricultural, and biological environments.

Projects proposed by Basin Electric adhere to the requirements of the Rural Utilities Service Environmental Policies and Procedures which describe the procedures for compliance with the provisions of the National Environmental Policy Act (NEPA). Through the NEPA process, Basin Electric encourages state, federal and public participation in proposed projects so that once potential impact issues are identified appropriate mitigation measures can be formulated with the assistance of the participants to minimize potential impacts. An Environmental Assessment is developed which includes a comprehensive discussion and evaluation of environmental issues and

serves as a baseline document for subsequent environmental regulatory permits and a federal Environmental Impact Statement when required. The goal of this process is to select a facility location that best minimizes environmental, cultural and socio-economic impacts and engineering and construction costs.

Basin Electric adheres to the appropriate North Dakota statutes regulating industrial development projects such as electrical generating facilities and high voltage transmission lines and substations. In addition, it is Basin Electric's practice to inform affected state and federal agencies when prospective projects are identified to solicit their input early in the planning process.

Basin Electric utilizes a socio-economic impact management program to assist communities in addressing population growth associated with the construction of energy conversion facilities. Basin Electric follows an open-planning process to determine the specific negative and positive impacts that may develop in an area, and works closely with the local citizens and public officials on key issues. Once issues are defined, strategies are recommended to alleviate the adverse conditions. Basin Electric further provides public officials with the technical assistance to secure financing for public services and facilities needed to alleviate negative impacts.

SECTION L: PROJECTED DEMAND FOR SERVICES

Exhibits 2 and 3 represent Basin Electric's sale to its Class A members. These exhibits represent Basin Electric's supplemental power supply responsibilities to its members. As a supplemental power supplier, Basin Electric is responsible for providing the members requirements in excess of the fixed amount of power they receive from WAPA and other sources.

An econometric based load forecast was completed in early 2009. The econometric forecasting system in the load forecast is a bottom up process that begins by developing econometric equations and forecasts for each distribution cooperative. The total system consists of approximately 350 forecasting equations and over 700 explanatory variables. Annual and monthly forecasts of energy and demand are conducted for a 15-year period. The distribution cooperative forecasts are combined to obtain the generation and transmission cooperative forecasts (G&T's). The G&T's power requirements are then separated into various power supply responsibilities. The Basin Electric components are combined to obtain the Basin Electric total power supply responsibility.

The modeling and forecasting is performed at Basin Electric. Throughout the modeling and forecasting process there is constant communication and review by member systems and the Rural Utilities Service (RUS) in Washington, D.C. The RUS is responsible to review and approve close to 1,000 distribution cooperative forecasts as well as large G&T systems forecasts such as Basin Electric. The RUS insures that state of the art methods and technologies are being used to produce short term and long-term forecasts. Historical energy data is combined with external data obtained from government and private sector sources as well as membership to form econometric forecasting equations. External projections of explanatory economic and

demographic variables used in the forecasting process are obtained from the Food and Agricultural Policy Research Institute at the University of Missouri-Columbia, MO., Woods & Poole Economics, Inc., and the Department of Energy, Wn. D.C., as well as others.

Exhibits 4 and 5 provide a geographical breakdown by state of the Basin Electric sales indicated in Exhibits 2 and 3.

Basin Electric is in the process of developing a system-wide load management system to help meet the growing demand of Basin Electric's member systems.

Basin Electric's service area is electrically divided into western and eastern systems. These systems are separated by the east-west ties, which are boundaries that separate two major electrical regions of the United States. This boundary essentially runs south from Fort Peck, MT, approximately following the South Dakota-Wyoming, Nebraska-Wyoming, and Colorado-Kansas borders. As a result of this, Basin Electric must supply generating capacity and energy on both sides of the ties to serve its member-load requirements.

The resources available to Basin Electric to serve its members' east-side requirements are as follows:

1. Leland Olds Generating Station: Leland Olds Unit 1 was placed in service on January 9, 1966 and is a base-load thermal unit located near Stanton, ND with a net capacity of 221 MW. Leland Olds Unit 2 was placed in service on December 15, 1975 with a net capacity of 448 MW. Basin Electric has committed to install emission control equipment at the Leland Olds Station which requires an increase to the station service. This equipment is anticipated to be installed in the fall of 2010 for Unit 2 and the fall of 2011 for Unit 1.

2. WAPA Peaking Capacity: In 1968 Basin Electric executed a long-term contract with the federal government for USBR (now WAPA) hydro peaking from the dams in the Missouri River Basin. This contract currently provides Basin Electric with 268.2 MW of winter peaking capacity at load, whereas an at-plant value includes losses on the Integrated System (IS).

3. Spirit Mound Station: Basin Electric placed in service two 60 MW (net) nameplate oil-fired combustion turbines on June 30, 1978. The combined winter rating of the two units is 120 MW (net) and the summer rating is 104 MW (net). The capacity is intended to be used primarily as reserves or replacement during initial outages of base-load units or during peak load periods when existing base-load units cannot meet the demand. The Spirit Mound Station is located near Vermillion, SD.

4. Laramie River Station: Basin Electric, together with five other consumer-owned power supply entities, began construction of the Laramie River Station near Wheatland in southeast Wyoming in July, 1976. The station's three units became fully operational on November 1, 1982, with Unit 1 at a net capacity of 570 MW; Unit 2 at a net capacity of 570 MW; and Unit 3 at a net capacity of 570 MW. The current rating of the units is due to turbine upgrades. Basin Electric, as Project Manager

and Operating Agent for the Missouri Basin Power Project, was assigned overall responsibility for the design, construction and operation of the power plant and related transmission. Units 2 and 3 of the Laramie River Station are electrically connected to the western system; Unit 1 is electrically connected to the eastern system. During 1998, the maximum emergency output rating of each of these units was increased by 15-20 MW. This increased output capability will be used in situations to maintain system reliability. The amount of power Basin Electric receives from the eastern unit is 47 MW (net). Basin Electric, along with the other participants of the Laramie River Station, have committed to upgrading the high pressure and intermediate pressure turbine sections of the main turbine at all three units. Unit 2 was completed in the spring of 2007 maintenance period; Unit 3 was completed in 2008 and Unit 1 will be completed in 2009.

5. Antelope Valley Station: Basin Electric operates two 450 MW (net) thermal-generating units near Beulah, ND. Approximately 110+ MW of electric power for the Dakota Gasification Company Synfuels Plant facilities are supplied by the Antelope Valley Station. Basin Electric has sold 98 MW of participation power from AVS #1 and #2 to the Montana Power Company. This sale is for the November through April periods through 2010. The remaining AVS power is available for use by Basin Electric to serve its member cooperatives' increasing loads. Unit 1 began commercial operation on July 1, 1984 and Unit 2 began partial commercial operation on June 1, 1986.

6. Neal IV: Basin Electric and Northwest Iowa Power Cooperative (NIPCO), one of Basin Electric's member cooperative negotiated a power supply contract which provides that NIPCO will sell to Basin Electric NIPCO's 33 MW of uncommitted capacity and associated energy from Unit No. 4 of the George Neal Generating Station (Neal IV). In return NIPCO entered into a wholesale power contract with Basin Electric whereby Basin Electric will sell and deliver to NIPCO all of NIPCO's capacity and energy requirements in excess of the power and energy available to NIPCO from the Western Area Power Administration.

7. Chamberlain Wind Project: Basin Electric, in partnership with East River Power Cooperative, has constructed a wind energy project near Chamberlain, South Dakota. The 2.6 megawatt capacity turbines were placed into commercial service in January 2002. The energy is delivered to members as part of Basin Electric's overall power supply.

8. Minot Wind Project: Basin Electric, in partnership with Central Power Electric Cooperative, has constructed a wind energy project 14 miles south of Minot, North Dakota. The 2.6 megawatt capacity wind turbines were placed into commercial service in February 2002. The energy is delivered to members as part of Basin Electric's overall power supply.

9. Wisdom Unit 2: Basin Electric partnered with Cornbelt Electric to build the 80 MW natural gas peaking unit near Spencer, Iowa. Basin Electric owns one half of the unit, which was placed in service in April 2004.

10. Groton Generation Station: Basin Electric commissioned the 95 MW Groton Unit 1 in 2006 and Unit 2 at 95 MW in 2008. These units provide peaking power.

11. Other Short-Term Resources: Basin Electric has also entered into a number of short-term purchase agreements to meet contractual power supply obligations. Due to the relatively short duration of these arrangements no specifics are provided.

12. Long-Term Resource: Basin Electric has entered into a long-term purchase agreement with Florida Power and Light Energy to meet contractual power supply obligations. A 40 megawatt wind energy project is located just west of Edgeley, ND, a 49.5 MW wind energy project is located near Wilton, ND, and a 40 megawatt wind energy project is located near Highmore, SD. Basin Electric also entered into a long-term purchase agreement with the City of Madison which provides 10MW of peaking power from a diesel unit at Madison, SD. Finally, Basin Electric has a purchase power agreement with Ormat Industries at six 5.5 MW waste heat recovery units. They are located near St. Anthony, Wishek, and Killdeer, North Dakota and the others are located in South Dakota.

13. Future Power Supply: For discussion of future power supply please refer to Section B (Energy Conversion Facilities Under Construction) and Section D (Proposed Energy Conversion Facilities During the Next Ten-Year Time Period).

The resources available to Basin Electric to serve its members' west-side requirements are as follows:

1. Laramie River Station: The Laramie River Station capacity that Basin Electric will receive from the two west-side units is 675 MW (net). Basin Electric, along with the other participants of the Laramie River Station, have committed to upgrading the high pressure and intermediate pressure turbine sections of the main turbine at all three units. Unit 2 was completed in the spring of 2007 maintenance period; Unit 3 was completed in 2008 and Unit 1 will be completed in 2009.

2. Miles City DC Tie: Basin Electric and the Western Area Power Administration have shared in the construction and capacity rights of a 200 MW back-to-back, AC-DC-AC tie built at Miles City, MT and completed in June 1985. This tie, which provides a 40% capacity entitlement, enables Basin Electric to serve Central Montana Electric Power Cooperative Inc., a Class A member with electrical loads located primarily west of the east-west ties, using capacity from east-side resources such as Antelope Valley Station.

3. Rapid City DC Tie: Basin Electric and Black Hills Power, Inc. have constructed a 200 MW asynchronous tie at Rapid City, SD. This tie enables Basin Electric to serve new coalbed methane load growth in northeastern Wyoming located west of the east-west ties, using capacity and/or energy from east side resources such as Antelope Valley Station. The Basin Electric ownership percentage is 65% and the Black Hills Power, Inc. ownership percentage is 35%.

4. Wyoming Distributed Generation: The Wyoming Distributed Generation consists of 9 units located at 3 sites; Arvada, Hartzog and Barber Creek. These units are natural gas fired units with a total net output of 45 MW summer and 54 MW winter.

The load values contained in Exhibits 2 through 5 were obtained from the econometric based load forecast completed in 2009. These loads have been adjusted to an at-generator system coincident basis by allowing for reserves, on-peak losses and system diversity as outlined in Exhibits 6 and 7.

1. Basin Electric has no concentrated load centers due to the regional and rural nature of the total load. The fuel sources and transportation facilities for existing and future plants are as follows:

Plant	Fuel Source	Transportation
Leland Olds Station	ND Lignite/Wyoming (PRB) Coal	Rail
Spirit Mound Station	Oil	Pipeline
Laramie River Station	Wyoming (PRB) Coal	Rail
Antelope Valley Station	ND Lignite/Wyoming (PRB) Coal	Mine Mouth/Rail
Minot Wind Project	Wind	N/A
Wyoming Distributed Generation	Natural Gas	Pipeline
Wisdom Unit 2	Natural Gas	Pipeline
Chamberlain Wind Project	Wind	N/A
Groton Generation Station	Natural Gas	Pipeline

2. Pursuant to federal and state laws, Basin Electric will examine all alternatives capable of producing an adequate and reliable source of energy for its member cooperatives.

   Specific alternatives selected will be evaluated considering environmental, engineering and economic factors. Additional facilities, transmission and generation will be designed and operated in accordance with state and federal standards.

LIST OF EXHIBITS

1. Form EIA-923*
2. Summer Loads
3. Winter Loads
4. Summer Loads by States
5. Winter Loads by States
6. Eastern System Summer Season Load-Resources
7. Eastern System Winter Season Load-Resources

Notes: * These exhibits are distributed only to the Public Service Commission. Copies are on file with the Public Service Commission or can be obtained from the Communications and Government Relations Department, Basin Electric Power Cooperative, 1717 East Interstate Avenue, Bismarck, ND 58503.

Resource values used in Exhibits 6 and 7 are based on actual or estimated results of Uniform Rating of Generating Equipment (URGE) tests, whereas the values referred to in the narrative are generally net or estimated net capacities for each plant. All east-side generator capabilities are on a net at-plant basis. The total responsibility includes adjustments for losses, system diversity and reserves.

BASIN ELECTRIC RESPONSIBILITY TO MEMBER COOPERATIVES

		Summer Loads (MW)
1999		1195
2000		1273
2001		1380
2002		1480
2003		1541
2004		1554
2005		1722
2006		1947
2007		2063
2008	Historical	2062
2009	Projected	2419
2010		2593
2011		2807
2012		3068
2013		3140
2014		3299
2015		3341
2016		3380
2017		3413
2018		3463

BASIN ELECTRIC RESPONSIBILITY TO MEMBER COOPERATIVES

		Winter Loads (MW)
1999/00		1084
2000/01		1250
2001/02		1193
2002/03		1362
2003/04		1518
2004/05		1599
2005/06		1725
2006/07		1946
2007/08		2140
2008/09	Historical	2420
2009/10	Projected	2507
2010/11		2656
2011/12		2883
2012/13		3097
2013/14		3163
2014/15		3311
2015/16		3353
2016/17		3382
2017/18		3430
2018/19		3475

BASIN ELECTRIC MEMBER LOADS BY STATE

Summer Peak Demand (MW)

Historical

Year	ND	%	SD	%	MN	%	IA	%	NE	%	MT	%	CO/WY	%	Total
1999	267.9	22.4	288.5	24.2	52.5	4.4	102.2	8.6	197.4	16.5	28.3	2.4	257.7	21.6	1194.5
2000	292.6	23.0	301.7	23.7	53.9	4.2	98.7	7.8	214.9	16.9	28.9	2.3	282.3	22.2	1273.0
2001	306.5	22.2	342.5	24.8	58.0	4.2	116.0	8.4	227.3	16.5	30.3	2.2	299.8	21.7	1380.4
2002	315.3	21.3	351.9	23.8	57.7	3.9	127.1	8.6	253.5	17.1	43.9	3.0	330.1	22.3	1479.6
2003	353.0	22.9	345.5	22.4	57.8	3.8	121.4	7.9	239.1	15.5	55.9	3.6	367.9	23.9	1540.6
2004	328.8	21.2	353.9	22.8	55.4	3.6	119.0	7.7	233.4	15.0	61.8	4.0	401.4	25.8	1553.6
2005	356.6	20.7	400.1	23.2	62.0	3.6	131.1	7.6	269.7	15.7	74.2	4.3	428.0	24.9	1721.6
2006	400.0	20.5	440.4	22.6	71.4	3.7	187.9	9.7	272.9	14.0	82.0	4.2	492.2	25.3	1946.9
2007	451.9	21.9	460.8	22.3	91.6	4.4	186.1	9.0	261.6	12.7	86.4	4.2	524.0	25.4	2062.5
2008	464.6	22.5	420.7	20.4	87.5	4.2	177.0	8.6	270.1	13.1	91.8	4.5	550.6	26.7	2062.3

Projected

Year	ND	%	SD	%	MN	%	IA	%	NE	%	MT	%	CO/WY	%	Total
2009	525.8	21.7	539.4	22.3	194.4	8.0	236.8	9.8	252.3	10.4	110.3	4.6	560.0	23.2	2419.0
2010	562.0	21.7	596.2	23.0	217.3	8.4	249.7	9.6	254.5	9.8	114.2	4.4	598.5	23.1	2592.5
2011	583.5	20.8	625.0	22.3	234.0	8.3	253.7	9.0	256.5	9.1	129.1	4.6	724.8	25.8	2806.6
2012	631.3	20.6	723.1	23.6	261.5	8.5	256.5	8.4	253.2	8.3	167.9	5.5	774.0	25.2	3067.6
2013	651.8	20.8	736.9	23.5	275.5	8.8	259.2	8.3	252.4	8.0	172.5	5.5	791.6	25.2	3140.0
2014	681.3	20.7	822.3	24.9	289.2	8.8	261.0	7.9	253.3	7.7	199.6	6.1	791.7	24.0	3298.5
2015	695.7	20.8	837.1	25.1	303.4	9.1	262.9	7.9	259.1	7.8	203.0	6.1	779.9	23.3	3341.2
2016	712.2	21.1	852.6	25.2	317.8	9.4	265.3	7.9	258.8	7.7	206.5	6.1	766.3	22.7	3379.6
2017	727.1	21.3	867.8	25.4	333.3	9.8	267.8	7.8	261.4	7.7	209.4	6.1	746.1	21.9	3412.9
2018	741.7	21.4	883.7	25.5	349.6	10.1	269.9	7.8	262.5	7.6	211.5	6.1	743.9.	21.5	3462.8

Exhibit 4

BASIN ELECTRIC MEMBER LOADS BY STATE

Winter Peak Demand (MW)

Historical

Year	ND	%	SD	%	MN	%	IA	%	NE	%	MT	%	CO/WY	%	Total
1999/00	312.3	28.8	269.3	24.8	47.9	4.4	102.3	9.4	31.0	2.9	28.0	2.6	292.9	27.0	1083.8
2000/01	342.1	27.4	328.0	26.2	57.4	4.6	124.6	10.0	42.5	3.4	33.6	2.7	321.9	25.8	1250.0
2001/02	312.5	26.2	300.4	25.2	47.1	3.9	108.4	9.1	37.4	3.1	34.9	2.9	352.6	29.5	1193.4
2002/03	376.7	27.7	342.3	25.1	54.0	4.0	127.8	9.4	35.7	2.6	55.0	4.0	370.6	27.2	1362.2
2003/04	416.9	27.5	393.8	25.9	59.7	3.9	134.2	8.8	35.6	2.3	62.4	4.1	415.7	27.4	1518.4
2004/05	437.9	27.4	416.6	26.1	62.7	3.9	138.7	8.7	43.5	2.7	64.0	4.0	435.6	27.2	1598.9
2005/06	462.6	26.8	414.7	24.0	65.8	3.8	186.6	10.8	48.4	2.8	72.2	4.2	474.3	27.5	1724.6
2006/07	494.6	25.4	484.4	24.9	111.0	5.7	211.5	10.9	50.0	2.6	70.6	3.6	524.3	26.9	1946.4
2007/08	562.7	26.3	524.3	24.5	113.3	5.3	231.7	10.8	50.0	2.3	98.7	4.6	559.5	26.1	2140.2
2008/09	622.7	25.7	633.9	26.2	139.4	5.8	270.0	11.2	56.5	2.3	96.3	4.0	600.9	24.8	2419.5

Projected

Year	ND	%	SD	%	MN	%	IA	%	NE	%	MT	%	CO/WY	%	Total
2009/10	650.9	26.0	611.9	24.4	188.0	7.5	275.2	11.2	49.1	2.0	110.7	4.4	621.3	24.8	2506.9
2010/11	676.6	25.5	646.5	24.3	202.0	7.6	279.8	11.0	49.6	1.9	117.8	4.4	683.7	25.7	2656.1
2011/12	713.4	24.7	665.2	23.1	227.0	7.9	283.1	10.5	50.0	1.7	144.9	5.0	799.4	27.7	2883.0
2012/13	755.7	24.4	762.3	24.6	238.4	7.7	286.3	9.8	50.2	1.6	178.3	5.8	825.5	26.7	3096.8
2013/14	772.8	24.4	780.2	24.7	249.6	7.9	288.6	9.2	50.7	1.6	183.9	5.8	836.9	26.5	3162.7
2014/15	805.2	24.3	866.0	26.2	261.2	7.9	290.9	9.1	51.8	1.6	211.8	6.4	824.2	24.9	3311.1
2015/16	825.0	24.6	882.1	26.3	272.9	8.1	293.9	8.8	52.8	1.6	215.9	6.4	810.5	24.2	3353.0
2016/17	842.6	24.9	897.8	26.5	285.6	8.4	296.6	8.8	53.5	1.6	219.1	6.5	786.7	23.3	3381.8
2017/18	858.6	25.0	914.0	26.6	298.9	8.7	299.3	8.8	54.2	1.6	221.5	6.5	783.2	22.8	3429.7
2018/19	868.7	25.0	931.5	26.8	312.9	9.0	302.1	8.7	55.0	1.6	222.4	6.4	783.6	22.5	3475.1

Exhibit 5

BASIN ELECTRIC EASTERN SYSTEM LOAD-RESOURCES

Summer Season

	Members' Load Projections	Contracted Sales to Others	Losses, Diversity, and Reserves	Total Responsibility
2009	1994	0	319	2313
2010	2190	0	350	2540
2011	2338	0	374	2712
2012	2588	0	414	3002
2013	2623	0	420	3043
2014	2775	0	444	3219
2015	2792	0	447	3239
2016	2876	0	460	3336
2017	2968	0	475	3443
2018	3072	0	492	3564

Resources

	Leland Olds	Laramie River	Spirit Mound	Antelope Valley	Neal IV	Wisdom	Groton	Madison	Purchases	Wind Accreditation	Waste Heat Recovery	Total Resources
2009	669	47	103	900	33	39	163	10	130	21	33	2148
2010	669	47	103	900	33	39	163	10	80	21	33	2098
2011	669	47	103	900	33	39	163	10	30	21	33	2048
2012	669	47	103	900	33	39	163	10	30	21	33	2048
2013	669	47	103	900	33	39	163	10	0	21	33	2018
2014	669	47	103	900	33	39	163	10	0	21	33	2018
2015	669	47	103	900	33	39	163	10	0	21	33	2018
2016	669	47	103	900	33	39	163	10	0	21	33	2018
2017	669	47	103	900	33	39	163	10	0	21	33	2018
2018	669	47	103	900	33	39	163	10	0	21	33	2018

Exhibit 6

BASIN ELECTRIC EASTERN SYSTEM LOAD-RESOURCES

Winter Season

	Members' Load Projections	Contracted Sales to Others	Losses, Diversity, and Reserves	Total Responsibility
2009/10	1906	148	337	2391
2010/11	2046	50	357	2453
2011/12	2261	0	384	2645
2012/13	2444	0	416	2860
2013/14	2512	0	427	2939
2014/15	2634	0	448	3082
2015/16	2652	0	451	3103
2016/17	2736	0	465	3201
2017/18	2825	0	480	3305
2018/19	2930	0	498	3428

Resources

	Leland Olds	Laramie River	Spirit Mound	Antelope Valley	Neal IV	Wisdom	Groton	Madison	Purchases	Wind Accreditation	Waste Heat Recovery	WAPA Peaking	Total Resources
2009/10	669	47	120	900	33	40	202	10	80	42	33	279	2455
2010/11	669	47	120	900	33	40	202	10	30	42	33	276	2402
2011/12	669	47	120	900	33	40	202	10	30	42	33	276	2402
2012/13	669	47	120	900	33	40	202	10	30	42	33	276	2402
2013/14	669	47	120	900	33	40	202	10	0	42	33	276	2372
2014/15	669	47	120	900	33	40	202	10	0	42	33	276	2372
2015/16	669	47	120	900	33	40	202	10	0	42	33	276	2372
2016/17	669	47	120	900	33	40	202	10	0	42	33	276	2372
2017/18	669	47	120	900	33	40	202	10	0	42	33	276	2372
2018/19	669	47	120	900	33	40	202	10	0	42	33	276	2372

Exhibit 7